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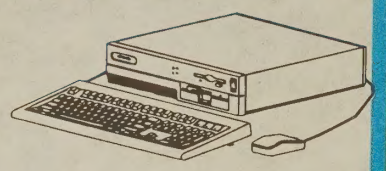

486SX2-66MHz CPU • 340MB Hard Drive • 4MB RAM expandable to 32MB
1.44MB Floppy Drive Local BUS SVGA • 3 ISA expansion slots
Internal Fax/Modem • Pre-installed software: MS DOS • MS Windows 3.1
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America On-Line • MS Entertainment Pack
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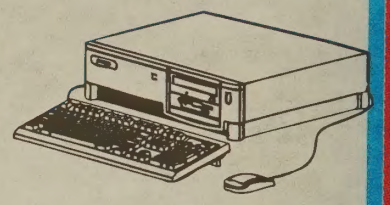
## COMPAQ 486SX2 66MHz PRESARIO 720 CDS MULTIMEDIA SYSTEM



486SX2-66MHz CPU • 420MB Hard Drive • 4MB RAM expandable to 64MB • 1MB VRAM expandable to 2MB • 3 ISA expansion slots • Dual-Speed Internal CD-ROM
16-Bit Stereo Sound Card • Built-In Speakerphone • Internal Fax/Modem
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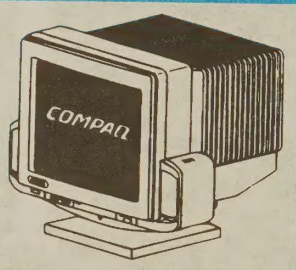


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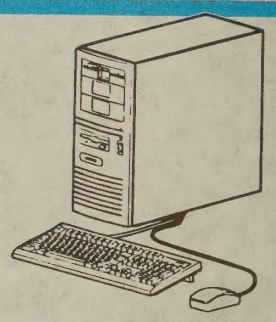

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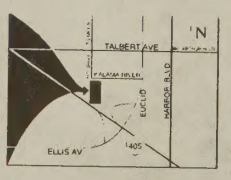


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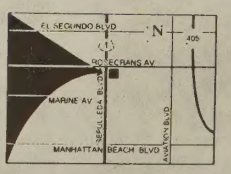


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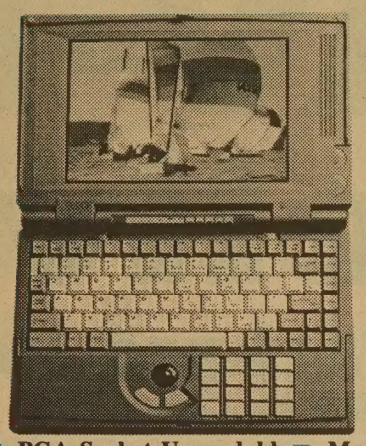

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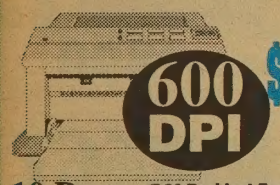

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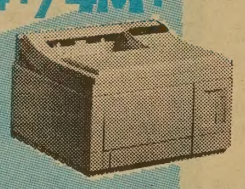

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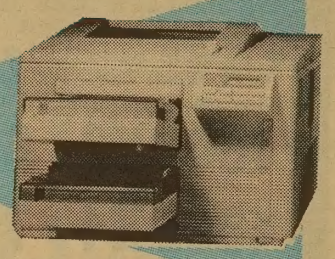

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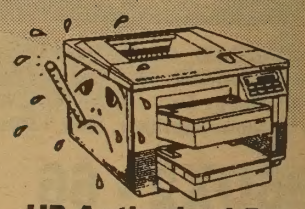

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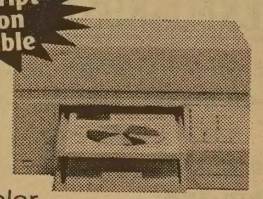

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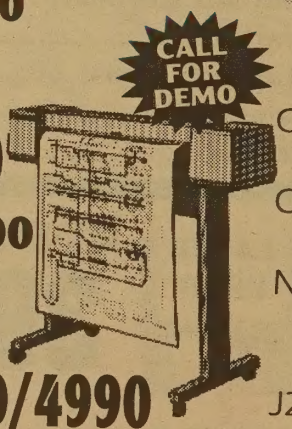


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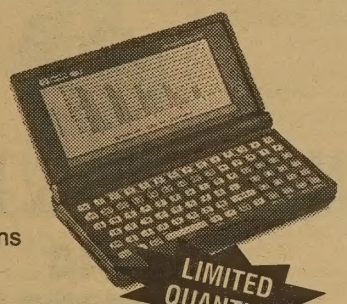


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October 17, 1994 • Issue #128


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BY MARY EISENHART

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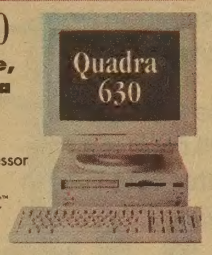


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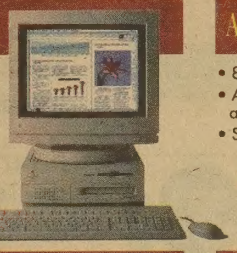

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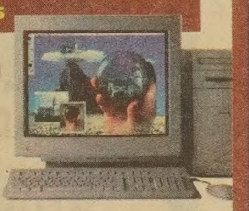

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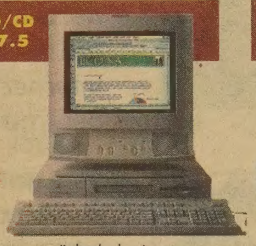

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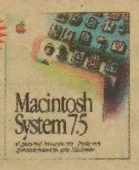


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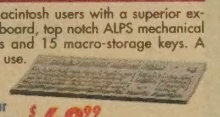

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## Express Yourself!

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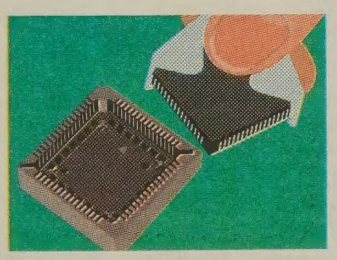

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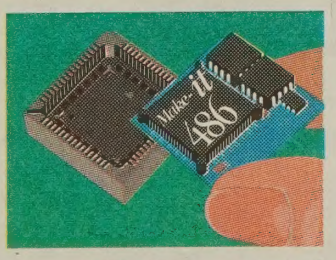


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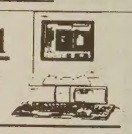

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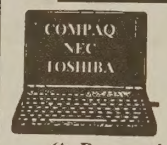


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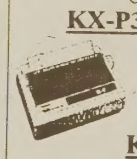

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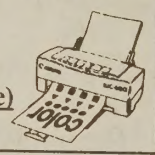

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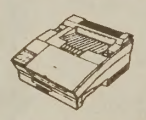

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**PUBLICATIONS** *BAM , Drive!, SF Downtown, Home Improvement & Design*

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Dennis Erokan, Don Hamilton, Pat Hamilton

This Vol. 10 No. 12 October 17, 1994, Whole No. 128. MicroTimes, California's Computer Magazine, is published by BAM Media, Inc., 3470 Buskirk Ave., Pleasant Hill, CA 94523. Phone Advertising Office (510)934-3700. Fax (510)934-7351. email Microx@well.sf.ca.us Los Angeles Office, 6767 Forest Lawn Drive, Suite 110, Los Angeles, CA 90068. Phone (213) 851-8600. Fax (213)851-8303. San Jose Office, 36 Harold Ave., Suite 2, San Jose, CA 95117. Phone (408) 244-4400. Fax (408) 248-4552. Anaheim Office, 801 East Katella Ave., Suite #210, Anaheim, CA 92805. Phone (714) 939-2809. Fax (714)978-6135. MicroTimes™ is © 1994 by BAM Media, Inc. Subscription rates: 14 issues, U.S.: 4th Class $35 (Allow 3 to 4 weeks for delivery), 1st Class $65 (Allow 1 to 2 weeks for delivery). MEXICO & CANADA: Surface Mail $50 (Allow 4 weeks for delivery). Air Mail $75 (Allow 1 week for delivery). OVERSEAS: Surface Mail $50 (Allow 6-10 weeks for delivery), Air Mail $178 (Allow 1 week for delivery). To receive sample issues, please send $5 ($6 for overseas) to cover postage costs. Back issues are $6 each. All rights reserved. Reproduction in whole or in part without permission of Publisher is strictly prohibited. The staff and management of MicroTimes do not advocate or encourage the use of any product or service adve tised herein for illegal purposes.

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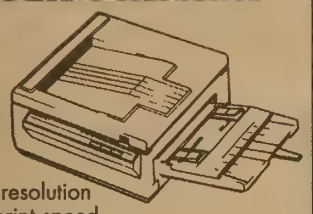

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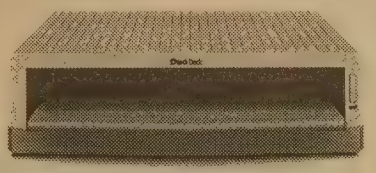

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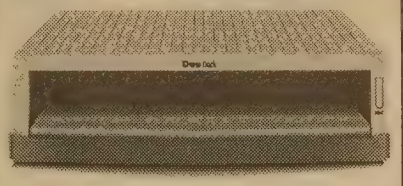

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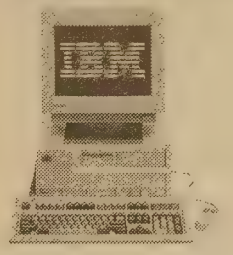

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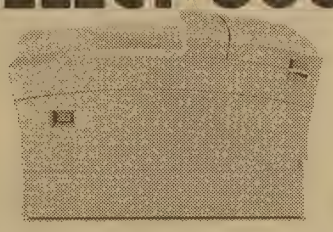

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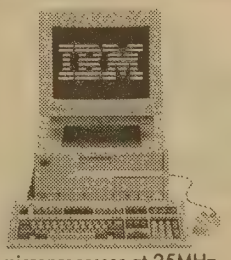

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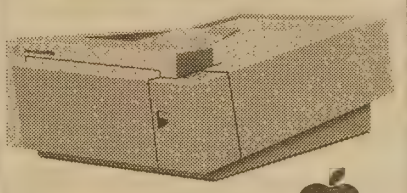

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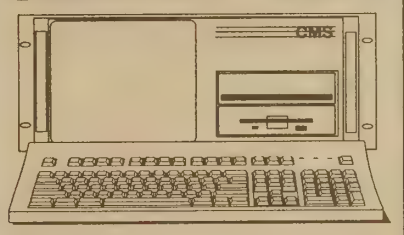

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BY PAUL HOFFMAN

# Industry Insight

## PowerPC Market Gaining Ground, Losing Focus

### The diehards

who laughed at the PowerPC RISC chip as another failed attempt to wrest power from Intel aren't laughing as hard, but they still have no reason to worry. The joint IBM-Motorola-Apple venture is doing well with current products, and new products show that it has a brighter future than most of its RISC competitors, but there is definitely no PowerPC juggernaut.

The new products come from IBM and 3DO, two companies who have little in common other than short names. Early next year, IBM will release low-cost desktop computers based on the PowerPC CPU, although their plans for the system have been seriously marred by the lack of a version of OS/2 to run on the new systems. 3DO, on the other hand, announced that it will use PowerPC as the basis for its future game systems and will create a PowerPC accelerator for current systems that will be available in about a year.

IBM's main problem with its forthcoming PowerPC systems is one of marketing. The company has been trumpeting its OS/2 for PowerPC operating system for quite a while, but now it appears that finishing the computers beat finishing the operating system by more than six months. Many IBM insiders say that the new computers are ready to be released; however, they would only be able to run Microsoft's Windows NT and IBM's UNIX system, AIX, since OS/2 for PowerPC is not ready yet.

The delay gives IBM a bit more time to decide exactly what to offer in the way of hardware on the new systems. Currently, there are two desktop and one laptop models, although that might change in the coming months as developers get a chance to work with the various systems. The delay also gives IBM more time to assess Apple's impact on the PowerPC market, and to see if it can fill some holes in Apple's lineup.

> Given that most people equate the Macintosh operating system with "easy," IBM's new systems that only run UNIX and Microsoft's advanced operating system will look pretty bad in comparison.

The 3DO announcement is a good indication that other companies are taking PowerPC seriously. 3DO's systems have a small part of the game market, but they are getting good reviews for their advanced features. 3DO's decision to use the PowerPC in future systems instead of the current ARM CPU comes from their belief that the PowerPC will get faster and cheaper more quickly than ARM, and they can make the transition smoothly because of PowerPC's good emulation abilities. The first 3DO product will be an upgrade cartridge for next year's Christmas market, followed by native PowerPC systems some time in 1996.

### Chicago 4, Windows 95

It's now official: The next version of Windows will be called Windows 95, not Windows 4 or Windows Chicago.

First of all, the choice of names reflects that Microsoft indeed couldn't meet its shipping deadline—the one they swore only a few months ago that they would make. It also is an indication that Microsoft has finally realized that version numbering schemes make no sense at all, even to intermediate-level computer users. However, the new name will probably come back to haunt them very quickly.

By naming the new program after the year it comes out, Microsoft hopes to give end-users a better understanding of what they're getting. Of course, few users go to their dealers and insist on a particular version of Windows: they just want Windows, whatever that is. The name "Windows 95" is no less confusing than "Windows 4," given that what it is being compared to is the eloquently named "Windows 3.1." Since the program probably won't ship until June, maybe they should call it "Windows 95.5."

Microsoft could be headed for a publicity disaster six months after Windows 95 ships: Who wants to buy a new PC with "last year's operating system" on it? Microsoft has already said that it's not committed to coming out with a new version of Windows each year. What happens if Microsoft is forced to create a bug-fix release before 1996: what could they call it? Unless Microsoft plans to have at least a cosmetic upgrade available in the first three months of 1996, the naming scheme will certainly haunt them.

The system also leaves one wondering: What about the other main product, Windows NT? The "new" in NT's "new technology" is already getting a tad old, and the operating system has mostly been relegated to acting as a data server, not as an operating system for humans. It is interesting to note, however, that software companies won't be able to use the "Windows 95 compatible" logo for their next versions of software unless the software also runs under NT. It seems like Microsoft may be trying to resuscitate some NT sales that have been lost due to the near-nonexistence of NT-specific user software.

The announcement of the new name comes at a time when Microsoft is catching a great deal of heat from large corporate customers about the lateness of the beta test

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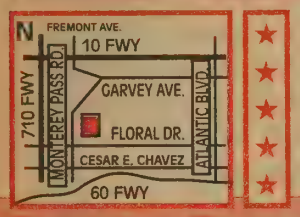


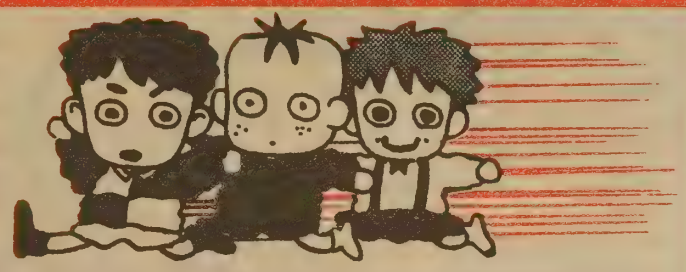

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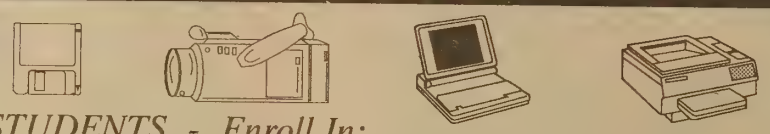

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## Industry Insight *continued*

versions of the operating system. In view of the fact that the system was supposed to have been finished by now, it's particularly galling that only a single, bug-ridden beta test version has been produced so far. The long-awaited "Beta 2" may have shipped by the time you read this, maybe not.

However, it is clear that the beta test program is taking much, much longer that Microsoft imagined, and that few of the testers are very happy about the delay between beta versions. With the new naming, it is likely that real users will also have long delays between versions, or that Microsoft will back off from its naming scheme and we'll see Windows 95A or something like that.

### Instant And Not-So-Instant Internet Access

What do networking, multimedia, and the Internet have in common? They're all the next big thing; the year after they were supposed to be the big thing they are still the next big thing; and no one can really define any of them well. It has been "the year of the network" since 1987, "the year of multimedia" since 1991, and now 1994 is "the year of the Internet." Yeah, maybe.

It is interesting to note, however, that software companies won't be able to use the "Windows 95 compatible" logo for their next versions of software unless the software also runs under NT.

As with networking and multimedia, the numbers of people who supposedly use the Internet are wildly exaggerated and get bigger each time an announcement is made about giving easier access. Last month, IBM announced that the next version of OS/2 will ship completely "Internet-ready." It will contain all the necessary software for graphical access through the SLIP and TCP/IP protocols and, if the purchaser doesn't already have an Internet provider (like 99% of the country), they will be two or three mouse clicks away from a new Internet account on the IBM Global Network through its partnership with Advantis, a large-scale networking company.

The new OS/2 tools will bring users more of the Internet the rest of the public has been reading about than, say, America Online and CompuServe. Both these companies are loudly touting their services as part of the Internet, but neither has a connection to the World Wide Web, the Internet service that caused a flurry of interest starting about a year ago and still winds up on the cover of magazines like *Science*. By getting a full SLIP connection and reasonable software, OS/2 users will be able to take advantage of the same Internet that is being widely touted.

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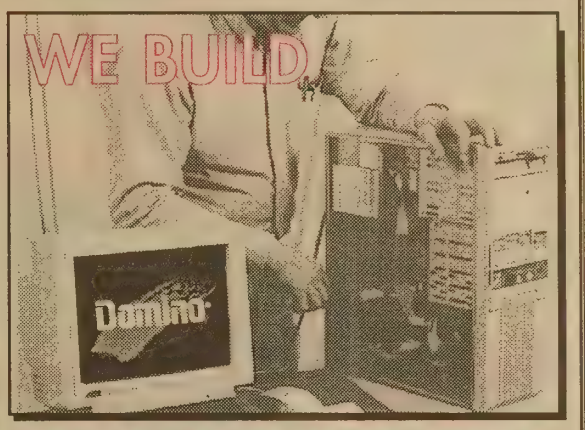


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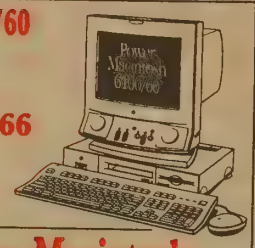

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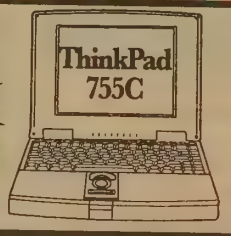


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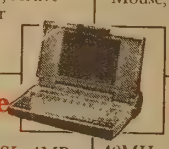

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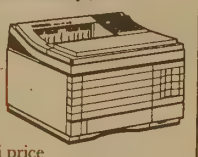

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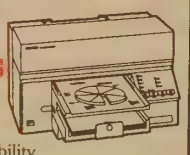

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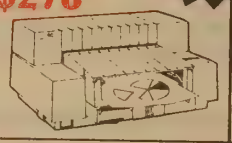

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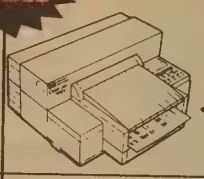

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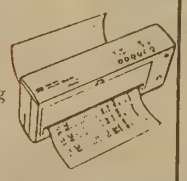

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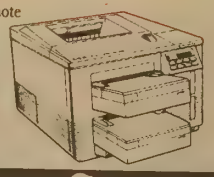

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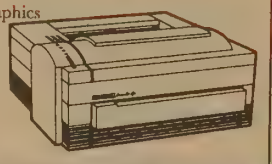

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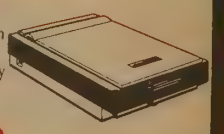
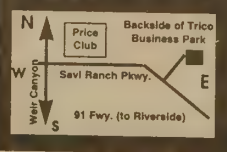


**HP ScanJet IIp Scanner $498**

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# Future Computing Solutions Inc.

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## Industry Insight *continued*

Those tools will also put OS/2 users in the small minority on the Internet. Of the "twenty million" Internet users you often hear about, probably fewer than three million have the kind of access needed to run today's graphical World Wide Web software. More users are getting this kind of access, using either the SLIP or PPP protocols, every day, but they are also finding that few Internet providers offer this kind of access. Even if America Online and CompuServe allowed World Wide Web access tomorrow, that's only a few more million users.

**By getting a full SLIP connection and reasonable software, OS/2 users will be able to take advantage of the same Internet that is being widely touted.**

The wild card in the game may, again, be Microsoft. They have already announced that Windows 95 will come with TCP/IP, and it would be trivial for them to include SLIP or PPP and the needed software for a full Internet connection. They will probably already have their own Internet service available by the time Windows 95 ships, setting up all the needed pieces. If they price their system inexpensively, they could open the whole market up in one quick shot.

As Internet companies are starting to find out, pricing may be everything. Apple's eWorld service is getting slammed, among other things, for its incredibly high price relative to other services. Even the other established services are feeling the heat. It only takes one or two months of $30 computer bills for many people to unsubscribe. Look how much heat the cable TV industry is getting for their basic average of $22 per month for over fifty channels.

The other big question that only a few people are looking at is whether the Internet can cope with twenty million real users (as compared to twenty million people who can do nothing more than send electronic mail). The United States' Internet backbone is in upheaval; users are coming from other commercial networks and expecting to get the same quality of service from the Internet; and the press has been sold a bill of goods about who is actually using the thing. 1994 or 1995 could be the year of the Internet, but it also could be the year that the Internet got a dose of reality based on an influx of real users. ■

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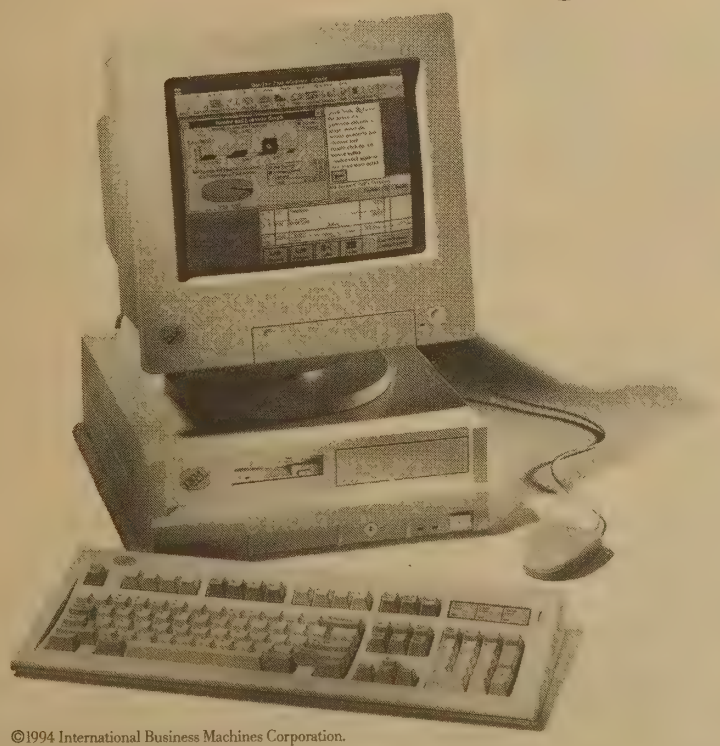

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**Industry Insight**

# MicroTimes Index Takes Its Cue From Surging Dow Industrials

The MicroTimes Stock Index sprang to life during the monthly trading session ended September 16, aided by the 178-point surge in the Dow Jones Industrial Average.

The bottom line for our index of thirty stocks in the accompanying table reads as follows: up a brisk 253 points, or 5%, to conclude at 5323.66—its highest mark in 1994. In comparison, the Dow Jones Industrial Average rallied 4.75% to conclude the four-week period at a five-month high of 3933.35 and is now poised to eclipse the 4000 mark for the first time in history.

IBM added a stout $2.88 a share en route to a new twenty-month high of $71. The brokerage firm S.G. Warburg upped its twelve-month price range for the stock to between $80 and $85 a share, and Standard & Poor's reiterated its "accumulate" rating on IBM last month. IBM's stock price also shot up amid growing optimism that financial results in Europe will rebound and contribute positively to the company's sales and earnings.

Hewlett-Packard rose a brisk $3.25 a share to $91.13. The company pleased Wall Street and shareholders when it posted a 28% gain in its fiscal third-quarter profits to $347 million. Additionally, sales for the three-month period rose 22% to $6.05 billion. HP's gross profit margin was 37.7%, down from 40.2% in the year-ago period, but virtually the same as in the second fiscal quarter.

Compaq notched a $1-a-share gain to close at $37.63. Last month, Merrill Lynch reiterated its near- and long-term "buy" rating on the Houston-based concern. The brokerage firm said Compaq was best positioned to take advantage of strong demand for PCs, saying it will have enough computers to meet demand for the fourth quarter after taking steps to alleviate product restraints that hurt sales in the past.

On the sell side of the ledger, AST Research fell $3 a share, or 17.7%, en route to a close of $14. The stock was lowered to "hold" in new analyst coverage by CS First Boston Corp. ■

| EXCH | COMPANY | | TICKER SYMBOL | CLOSING PRICE 08/19/94 | CLOSING PRICE 09/16/94 | NET CHANGE IN PERIOD | PERCENT CHANGE IN PERIOD | P/E RATIO | ANNUAL DIVIDEND RATE | ANNUAL DIVIDEND YIELD | ANNUAL HIGH | ANNUAL LOW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SOFTWARE | | | | | | | | | | | |
| OTC | Adobe | (H) | ADBE | 32.25 | 34.75 | 2.50 | 7.75 | 28 | 0.20 | 0.58 | 34.75 | 16.50 |
| OTC | Autodesk | (H) | ACAD | 58.25 | 62.25 | 4.00 | 6.87 | 24 | 0.48 | 0.77 | 66.00 | 37.00 |
| OTC | Borland | | BORL | 14.13 | 12.38 | -1.75 | -12.39 | - | 0.00 | 0.00 | 18.25 | 8.50 |
| OTC | Informix | | IFMX | 20.88 | 23.25 | 2.38 | 11.38 | 27 | 0.00 | 0.00 | 24.50 | 14.25 |
| OTC | Lotus | | LOTS | 41.81 | 42.81 | 1.00 | 2.39 | 25 | 0.00 | 0.00 | 86.50 | 29.75 |
| OTC | Microsoft | (H) | MSFT | 54.88 | 56.88 | 2.00 | 3.64 | 30 | 0.00 | 0.00 | 59.25 | 37.38 |
| OTC | Novell | (L) | NOVL | 15.13 | 15.31 | 0.19 | 1.24 | 20 | 0.00 | 0.00 | 26.63 | 13.38 |
| OTC | Oracle | (H) | ORCL | 40.50 | 44.00 | 3.50 | 8.64 | 45 | 0.00 | 0.00 | 44.75 | 26.19 |
| OTC | Software Publishing | | SPCO | 4.00 | 4.75 | 0.75 | 18.75 | - | 0.00 | 0.00 | 8.63 | 3.00 |
| OTC | Symantec | | SYMC | 13.00 | 15.88 | 2.88 | 22.12 | - | 0.00 | 0.00 | 20.50 | 9.88 |
| | HARDWARE | | | | | | | | | | | |
| OTC | Apple | | AAPL | 34.88 | 36.38 | 1.50 | 4.30 | 22 | 0.48 | 1.32 | 38.50 | 22.00 |
| OTC | AST Research | (L) | ASTA | 17.00 | 14.00 | -3.00 | -17.65 | 9 | 0.00 | 0.00 | 33.00 | 12.00 |
| NYS | Compaq | | CPQ | 36.63 | 37.63 | 1.00 | 2.73 | 15 | 0.00 | 0.00 | 39.88 | 18.41 |
| NYS | Digital Equipment | | DEC | 22.50 | 25.00 | 2.50 | 11.11 | - | 0.00 | 0.00 | 39.13 | 18.25 |
| OTC | Dell | (H) | DELL | 34.13 | 37.38 | 3.25 | 9.52 | 21 | 0.00 | 0.00 | 37.38 | 15.13 |
| NYS | Hewlett-Packard | | HWP | 87.88 | 91.13 | 3.25 | 3.70 | 17 | 1.20 | 1.32 | 93.63 | 64.38 |
| NYS | IBM | (H) | IBM | 68.13 | 71.00 | 2.88 | 4.22 | 31 | 1.00 | 1.41 | 71.00 | 41.25 |
| NYS | Silicon Graphics | | SGI | 25.13 | 24.88 | -0.25 | -1.00 | 27 | 0.00 | 0.00 | 26.88 | 18.75 |
| OTC | Sun Microsystems | | SUNW | 25.50 | 27.88 | 2.38 | 9.31 | 14 | 0.00 | 0.00 | 31.38 | 18.25 |
| NYS | Xerox | (H) | XRX | 107.13 | 105.13 | -2.00 | -1.87 | - | 3.00 | 2.85 | 109.38 | 69.88 |
| NYS | Tandy | | TAN | 39.63 | 42.75 | 3.13 | 7.89 | 17 | 0.60 | 1.40 | 50.75 | 30.75 |
| | CPU'S | | | | | | | | | | | |
| NYS | Advanced Micro Devices | | AMD | 28.75 | 30.00 | 1.25 | 4.35 | 11 | 0.00 | 0.00 | 31.75 | 16.75 |
| OTC | Intel | | INTC | 63.44 | 66.88 | 3.44 | 5.42 | 12 | 0.24 | 0.36 | 74.50 | 55.88 |
| NYS | LSI Logic | (H) | LSI | 30.25 | 35.13 | 4.88 | 16.12 | 25 | 0.00 | 0.00 | 35.13 | 13.00 |
| NYS | Motorola | (H) | MOT | 52.63 | 54.50 | 1.88 | 3.56 | 25 | 0.28 | 0.51 | 55.75 | 42.13 |
| | COMMUNICATIONS | | | | | | | | | | | |
| NYS | AT&T | | T | 53.13 | 54.88 | 1.75 | 3.29 | 18 | 1.32 | 2.41 | 61.38 | 49.50 |
| NYS | BellSouth Corp. | | BLS | 60.88 | 57.63 | -3.25 | -5.34 | 22 | 2.76 | 4.79 | 63.88 | 53.00 |
| OTC | MCI | | MCIC | 22.75 | 24.75 | 2.00 | 8.79 | 20 | 0.05 | 0.20 | 29.63 | 21.38 |
| NYS | Northern Telecom | (H) | NT | 34.75 | 37.25 | 2.50 | 7.19 | 47 | 0.36 | 0.97 | 37.25 | 23.75 |
| NYS | Pacific Telesis | | PAC | 31.88 | 33.13 | 1.25 | 3.92 | 29 | 2.18 | 6.58 | 34.50 | 29.41 |

NOTE: Aldus was acquired and removed from our list.

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

**MARKET DIARY:**

| | |
|---|---|
| ADVANCES | 25 |
| DECLINES | 5 |
| UNCHANGED | 0 |
| NEW HIGHS | 10 |
| NEW LOWS | 2 |

**MOST ACTIVE ISSUES:**

| | | |
|---|---|---|
| LARGEST DOLLAR GAINER | LSI Logic | $ 4.88 |
| LARGEST DOLLAR LOSER | BellSouth Corp | $ -3.25 |
| LARGEST PERCENTAGE GAINER | Symantec | 22.12 % |
| LARGEST PERCENTAGE LOSER | AST Research | -17.65 % |

| | CLOSE 08/19/94 | CLOSE 09/16/94 | NET CHANGE IN PERIOD | PERCENT CHANGE IN PERIOD |
|---|---|---|---|---|
| MICROTIMES STOCK INDEX | 5070.19 | 5323.66 | 253.47 | 5.00 |
| DOW JONES INDUSTRIAL AVERAGE | 3755.11 | 3933.35 | 178.24 | 4.75 |
| STANDARD & POOR'S 500 INDEX | 463.68 | 471.19 | 7.51 | 1.62 |
| N.Y.S.E. COMPOSITE | 255.81 | 259.77 | 3.96 | 1.55 |
| NASDAQ COMPOSITE | 742.43 | 777.91 | 35.48 | 4.78 |

CLOSING QUOTES FOR GRAPH:

| DATE | MICRO TIMES | DOW JONES |
|---|---|---|
| 03/04/94 | 5081.75 | 3832.30 |
| 04/05/94 | 4878.26 | 3675.41 |
| 04/29/94 | 4639.86 | 3668.31 |
| 05/27/94 | 4709.29 | 3757.14 |
| 06/24/94 | 4238.94 | 3636.94 |
| 07/22/94 | 4577.29 | 3735.04 |
| 08/19/94 | 5070.19 | 3755.11 |
| 09/16/94 | 5323.66 | 3933.35 |

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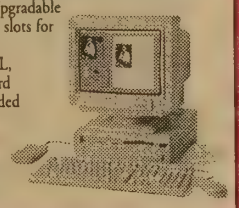
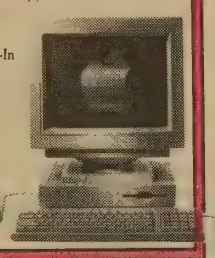
## Apple Macintosh Quadra® 630
- Motorola 68040 66-MHz Processor/33MHz data Base
- 1MB/Ram • Power PC Upgradable
- Includes Communication slots for Ethernet or Fax/Modem
- Video slot for NTSC, PAL, SECAM video input Card
- Monitor & KB not included



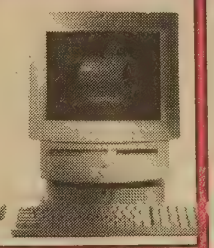
4/250
**$1189**

## Apple Macintosh Performa® 475
- Complete System
- 68040/25MHz Processor
- 4MB Ram, 160MB HDD
- 12 Software Programs, already Built-In
- 14" RGB Color Monitor
- Fax modem-send fax
- Multimedia Ready
- KB and Mouse
- 1 year limited warranty
- 1 year of in-home Service



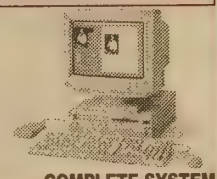
**COMPLETE SYSTEM**
**$1269**

## Apple Macintosh Performa® 575
- Complete System
- 68030/33/66MHz Processor
- 5MB Ram, 160 MB HDD
- 4 Interactive CD-ROMs
- 12 Software Programs
- Internal CD-ROM drive for both CD ROM and Music
- Built-in 14" Sony Color Monitor
- Global Village 24/98 Fax/Modem
- Keyboard & Mouse



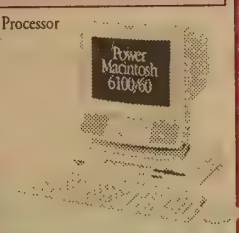
**COMPLETE SYSTEM**
**$1759**

## Apple Macintosh Performa® 630CD
- Complete System
- Motorola 68040 66-MHz processor/33MHz data bus
- 8MB RAM
- 250MB HDD
- Integrated 15" plus Display
- Apple Design KB
- 12Sftwr programs
- Internal CD-ROM
- Fax/Modem
- 6 CD Titles
- 1 year of in-home Service



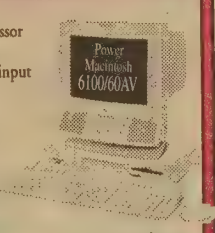
**COMPLETE SYSTEM**
**$1829**

## Apple Power Macintosh™ 6100/60
- 60 MHz Power PC 601 Processor
- 1MB VRam
- Built-in Ethernet
- 16-Bit Stereo Sound Input & Output
- System 7.1
- Monitor & Keyboard not included



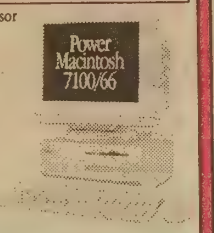

8/160
**$1569**
**SPECIAL BUY**

## Apple Power Macintosh™ 6100/60AV
- 60MHz Power/PC 601 Processor
- 2MB VRAM
- Support for NTSC and PAL input & output
- System 7.1
- Monitor & K.B not included



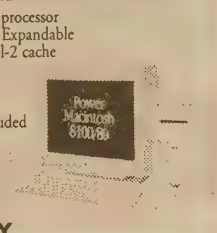

8/250/CD
**$2089**
**SPECIAL BUY**

## Apple Power Macintosh™ 7100/66
- 66-MHz Power PC 60/processor
- 1MB VRam
- Nine built-in ports
- Expandable to 136MB
- Built-in Ethernet
- System 7.1
- Supports All Apple Displays
- KB Monitor not included



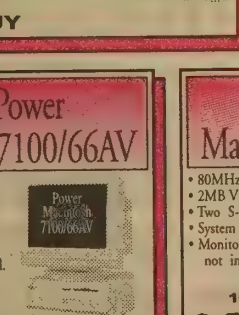

8/250
**$2329**
**SPECIAL BUY**

## Apple Power Macintosh™ 8100/80
- 80-MHz Power PC 601 processor
- 2MB VRam • Memory Expandable to 264MB • 256K level-2 cache
- Three NuBus slots
- Ethernet (AAUI)
- System 7.1
- Monitor & KB not included



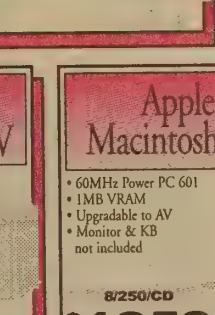

8/250
**$3469**
**SPECIAL BUY**

## Apple Power Macintosh™ 7100/66AV
- 66MHz PowerPC 601
- 2MB of VRAM for second display incl.
- NTS or PAL Monitors
- System 7.1 Software
- Monitor & K.B not included.



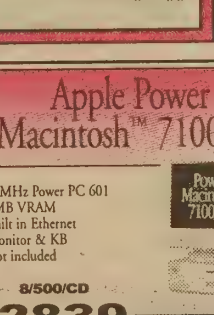

8/500/CD
**$2997**
**SPECIAL BUY**

## Apple Power Macintosh™ 8100/80AV
- 80MHz PowerPC 601
- 2MB VRAM
- Two S-Video Adapter
- System 7.1
- Monitor & K.B not included



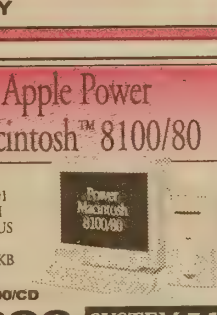

16/500/CD
**$4397** SPECIAL BUY

## Apple Power Macintosh™ 6100/60
- 60MHz Power PC 601
- 1MB VRAM
- Upgradable to AV
- Monitor & KB not included




8/250/CD
**$1859** SYSTEM 7.5

## Apple Power Macintosh™ 7100/66
- 66MHz Power PC 601
- 1MB VRAM
- Built in Ethernet
- Monitor & KB not included



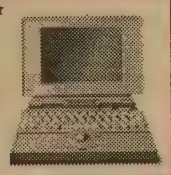

8/500/CD
**$2839** SYSTEM 7.5

## Apple Power Macintosh™ 8100/80
- 80MHz Power PC 601
- 2MB VRAM
- Three NUBUS slots
- Monitor & KB not included



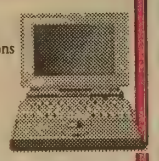

16/500/CD
**$4299** SYSTEM 7.5

## Apple Macintosh PowerBook® 150
- 68030 Microprocessor
- 33MHz
- 9.5" Backlit, Passive Matrix, Gray-Scale



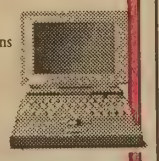
4/120
**$1379**

## Apple PowerBook Duo® 280
- 66/33MHZ 68LC040
- Power PC upgradable
- Duo Dock & Floppy Options
- Upgradeable to 40MB
- LCD Screen



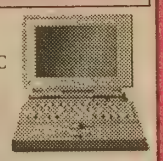
4/240
**$2369**

## Apple PowerBook Duo® 280C
- 66/33MHz 68LCo40
- Power PC upgradable
- Duo Dock & Floppy Options
- Upgradable to 40MB
- TFT Color Screen



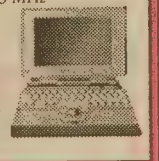
4/320
**$3289**

## Apple Macintosh PowerBook® 520/520C
- Motorola 68LC040 50/25MHz
- Upgradable to Power PC Built-In Ethernet



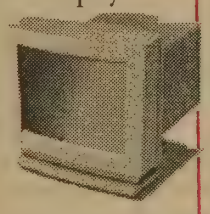
520 4/160 **$BEST PRICE**
520C 4/160 **$BEST PRICE**

## Apple Macintosh PowerBook® 540/540C
- Motorola 68LC040 66/33 MHz
- Upgradable to PowerPC
- Expandable to 36MB



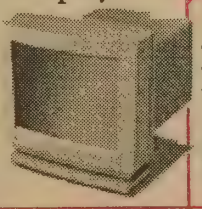
540 4/240 **$BEST PRICE**
540C 4/320 **$BEST PRICE**

## Apple Macintosh® Color Plus 14" Display
- .28 Dot Pitch
- 640x480 resolution



**$299**

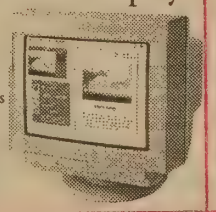
## Apple Macintosh® Color Display
- 14" Hi-Res Monitor
- Trinitron® Color Display
- .26 Dot Pitch



**$379**

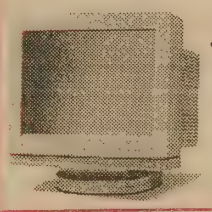
NEW

## Apple® Multiple Scan™ 15" Display
- .28mm Dot Pitch
- 1024x768 Res.
- Headphone/Speakers input & output



**$489**

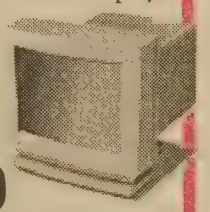
## Apple® Multiple Scan™ 17" Display
- Trinitron Screen
- Digital Control
- 17" Screen



**$949**

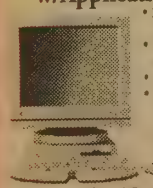
NEW

## Apple® Multiple Scan™ 20" Display
- Trinitron Screen
- Digital Control
- 20" Screen



**$1949**

## Apple® Macintosh Quadra® 605 w/Application Software
- 25MHz 68LC040 Processor
- Expandable to 36MB of RAM
- 512K of on-board VRAM
- Includes 7 Softwares Pre-Loaded



4/160
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## Color Page
- 17" Monitor
- .26 Dot Pitch
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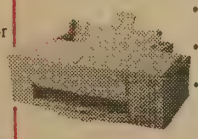
## Apple® Color Stylewriter® Pro
- 360DPI Resolution
- 64 Scalable Truetype Fonts
- Color Sync color Matching Tech



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## Apple® Laserwriter Select™ 310
- 300DPI
- 5PPM
- 1.5MB Memory
- Postscript

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## Apple LaserWriter Personal™ 320
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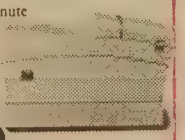
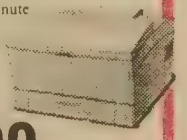
- 4 Pages Per minute
- 2MB of Ram
- w/Toner



**$859**

## New Apple LaserWriter Select™ 360
- 600 Dot per inch
- 10 Pages Per minute
- 7MB Ram
- Adobe Postscript 2
- w/Toner



**$1399**

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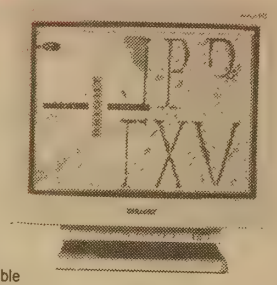

- Mac Compatible
- 17" Super Fine PitchTM Multiscan® Trinitron® color graphic display
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- Easy-to-use digital control of screen images
- Includes color temperature control for publishing, photography, imaging, and design applications
- Swedish MPR II compliant

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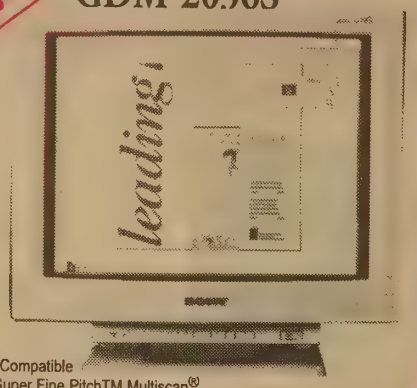
## GDM-2036S

Bargain




- Mac Compatible
- 20" Super Fine PitchTM Multiscan® Trinitron® color graphics display monitor
- .30mm Aperture Grille pitch
- Maximum resolution of 1280 x 1024 refresh (non-interlaced)
- Variable scan frequency of 30 to 71 kHz
- MRP II

20"

• Refurb. •

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## NEW! GDM 20se

- Mac Compatible
- 20" Super Fine PitchTM Multiscan® Trinitron® color graphics display monitor
- .30 mm Aperture Grille pitch
- Maximum resolution of 1600 x 1200 at 80 Hz refresh (non-interlaced)
- Variable scan frequency of 28 to 85 kHz
- Overscanning for crisp edge-to-edge images
- Energy Star Compliance Ecologic
- Includes color temperature control for publishing, photo and design applications
- Full compliance with Swedish MPR II standards for VLF/ELF magnetic and electrical emissions

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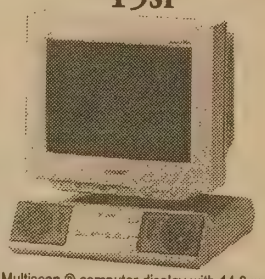
## NEW! Multiscan® 15sf 15" Trinitron®

- 15" Digital Multiscan® computer display with 14.0 maximum diagonal viewable area
- Trinitron® technology delivers bright images and vibrant colors
- .25mm Aperture Grille pitch
- EPA Energy Star and MPR II compliant
- Supports PC and Macintosh resolutions from VGA to 1280 x 1024 at 60Hz
- New design feature simple control buttons and minimizes footprint
- Includes color temperature control

#SON-15SF

**$455**

## 15sf



- 15" Digital Multiscan ® computer display with 14.0 maximum diagonal viewable area
- Trinitron® technology delivers bright images and vibrant colors
- .25mm Aperture Grille pitch
- EPA Energy Star and MPR II compliant
- Supports PC and Macintosh resolutions from VGA to 1280 x 1024 at 60Hz
- New design feature simple control buttons and minimizes footprint
- Includes color temperature control
- INCLUDES SONY CSS-B100 Computer Speaker System Space-saving ergonomical design fits under computer monitor

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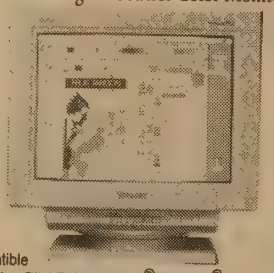
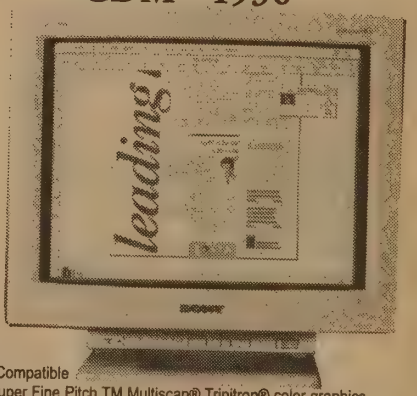
Trinitron Digital Control Color Monitor



- Mac Compatible
- 17" Super Fine PitchTM Multiscan® Trinitron® color display
- .25mm Aperture Grille pitch
- Maximum resolution of 1024 x 768 at 72 Hz refresh (non-interlaced)
- Variable scan frequency of 28 to 58kHz
- Overscanning for crisp edge-to-edge images
- Sony Display Memory System provides easy-to-use digital control of screen images
- Full compliance with Swedish MPR II standards for VLF/ELF magnetic and electrical emissions

**$929**

## GDM - 1936




- Mac Compatible
- 20" Super Fine Pitch TM Multiscan® Trinitron® color graphics display monitor
- 30 mm Aperture Greille pitch
- Maximum resolution 1280x1024 refresh (non-interlaced)
- Variable scan frequency of 30 to 71kHz

• Refurb. *

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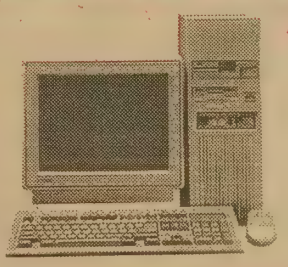

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- Keyboard, MS Mouse
- MS Windows, MS DOS

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REALIZABLE FANTASIES • BY JIM WARREN

# Now Is The Time!

## Demand Politicians' Commitments

**November 8** is our opportunity to realize some political fantasies; to vote against those who vote against our electronic civil liberties—whether they do so by incompetent ignorance of the issues, arrogant disregard of our dangers, blind obedience to their party leadership, or active support of draconian legislation.

(Of course you registered to vote before the October 11 deadline, thus assuring your right of revolution. And for convenience, send a signed request to vote by mail, to your county Registrar of Voters, and telling 'em where to send your absent-voter ballot—meaning nothing more than that you wish to be absent from the time-sucking voting-place cattle-call.)

### Principle Worth Repetition

In 1991, Harvard's world-renown constitutional scholar, Prof. Laurence Tribe, felt that this nation's constitutional freedoms were so endangered that—for the first time in his professional career—he proposed a Constitutional Amendment [at the First Conference on Computers, Freedom & Privacy, March 26, 1991]:

"This Constitution's protections for the freedoms of speech, press, petition, and assembly, and its protections against unreasonable searches and seizures and the deprivation of life, liberty, or property without due process of law shall be construed as fully applicable without regard to the technological method or medium through which information content is generated, stored, altered, transmitted, or controlled."

### Ask Political Candidates

It is clear that too many judges, too many prosecutors, and too many law enforcement officials think that a change in the technology used by citizens in conducting traditional civil-liberties freedoms justifies abrogating their constitutional protections—censoring electronic speech, monitoring electronic assembly, suppressing electronic press, and restricting robust personal privacy protection (such as public-key cryptography).

**IT IS CLEAR that too many judges, too many prosecutors, and TOO MANY law enforcement officials think that a CHANGE in the technology used by citizens in conducting TRADITIONAL civil-liberties freedoms JUSTIFIES abrogating their constitutional PROTECTIONS.**

•Ask your local candidates seeking election to Congress and to the state legislature to commit to introducing legislation reflecting the principles in Tribe's proposal—legislation that will assure robust protection of our freedoms and privacy, even when assisted by modern technology.

•Ask your local candidates to commit to creating technology-policy advisory committees to assist them with drafting such legislation, and that they will consult when evaluating technology-related legislation and policies—and commit to appointing as such advisors, technological experts, rather than nontechnical or big-donor political cronies.

•Ask them to commit to introduce legislation mandating online public access to all computerized legislative, executive-branch, and judicial public records, without government fees and without restrictions on reproduction and use in value-added nonprofit and commercial products. Ask that this include *all* forms of government-computerized public records—text, graphics, maps, satellite images, weather data, multimedia, etc.

•Ask them to give equal attention to protecting the privacy of nonpublic personal information collected by the government—including mandatory criminal and employment penalties for all government employees who violate or permit the violation of such protections.

•Ask them to commit to maintaining an online presence for communication with their constituents. For that matter, ask them if their campaign has an online presence. (And in the case of incumbents, ask how they are assuring that their tax-funded, government-provided online access is not being used for their political campaign.)

### You Have Clout!

Remember: Personal opinions expressed by you or anyone else who is perceived as *not* being a professional political hack and *not* seeking personal gain from election results—opinions stated in support or opposition of a candidate or ballot initiative—are *always* the most persuasive political advocacy.

You have a mighty voice—especially if you are a net user. Use it!

Compare your state and federal candidates' competency for shepherding the state and nation into the twenty-first century.

Tell everyone you know, located anywhere near the district you've researched, of your findings and conclusions. For example (sneaky devil that I am), your friends who live or work in the 408, 415, and 510 area codes around Silicon Valley might like to know:

### Silicon Valley's "Un-Representative"

The southern San Francisco Peninsula once had competent congressional representation, usually a moderate Republican, usually someone well-educated and technically literate. Prior to 1992, Stanford Law Professor Tom Campbell knowledgeably represented Silicon Valley interests, but left it while coveting a Senate seat.

Republican stupidity allowed a big-spending, liberal Democrat with no technical comprehension whatsoever—Anna Eshoo—from elite Atherton, to grab the seat. Eshoo's two 1992 qualifications were blind party loyalty and political correctness in that sexist "year of the woman."

Even her most ardent 1992 supporters—labor unions and many environmen-

continued on page 207

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### VESA LOCAL BUS SYSTEM

- Mini-Tower Case
- 256K Cache Memory
- 4MB RAM
- 250MB Hard Disk (500MB w/Double Space)
- VESA IDE/I/O Controller
- 1.2 & 1.44MB Floppy Drives
- 1MB VESA SVGA Card
- 14" SVGA Non-Interlaced Monitor .28mm
- 101 Enhanced Keyboard
- Lifetime Labor Warranty
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- 72 Hour Burn-In Test

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486DLC-40MHz/128K $229
486SLC2-66MHz IBM w/Math-Co $325

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486DX-33MHz/256K $325
486DX4-100MHz/256K Call for Best Price!
486DX2-50MHz/256K $335
PENTIUM 60MHz $745
486DX2-66MHz/256K $375

### Monitor & Graphic Cards

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|---|---|
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| 14" Mono VGA w/Card | $123 |
| 14" Color (.39) | $179 |
| SVGA 14" (.28) Non-Interlaced | $199 |
| SVGA 15" (.28) Non-Interlaced | $293 |
| SVGA 17" Non-Interlaced | $573 |

### Modem & Parts

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|---|---|
| Mouse | $7 |
| Joy Stick | $15 |
| 2400 Modem | $23 |
| (Sony, Mitsumi, Panasonic) CD ROM Double Speed | $129 |
| FAX MODEM (9600 BAUD) | $31 |
| 250 Tape Drive | $143 |
| 250 Tape | $16 |
| 14400 FAX/DATA MODEM | $65 |
| Epson ES-600 Color Scanner | $795 |
| Winjet 1200 (1200dpi for HPLP) | $595 |
| Screen Filter | $24 |

### CD Titles

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|---|---|
| 12 CD Titles (Encyclopedia, Chess Master, Animals...) | $35 |
| 14 CD Titles (Encyclopedia, Chess Master, Atlas...) | $40 |
| Shareware CD Titles (Window Games, Clip Art, Fonts, Business Titles...) | $7 |
| Adult CD Titles | CALL |

### Upgrades

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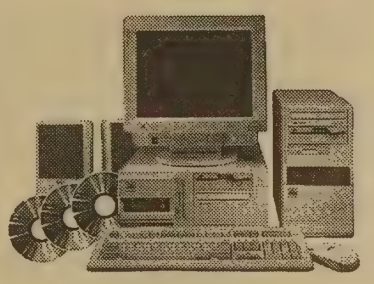
|---|---|
| Memory Upgrade Prices | CALL |
| 1.2M FDD | $39 |
| 1.44M FDD | $34 |
| PCI SCSI Controller | $85 |

### Hard Disk Drives

| | |
|---|---|
| 210MB IDE | $159 |
| 250MB IDE | $160 |
| 340MB IDE | $179 |
| 420MB IDE | $189 |
| 540 MB IDE | $255 |
| 1.0 GIG IDE | $530 |
| 1.7 GIG IDE | $965 |
| 1.08 GIG SCSI 2 | $620 |
| 2.0 GIG SCSI 2 | CALL |



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- Speakers

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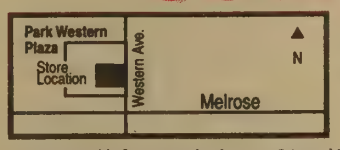


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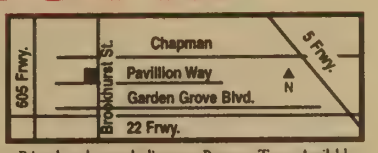


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# Desktop-To-Laptop Integration

## Maxtor's DeskRunner Adds A PCMCIA Slot To Your Desktop Computer

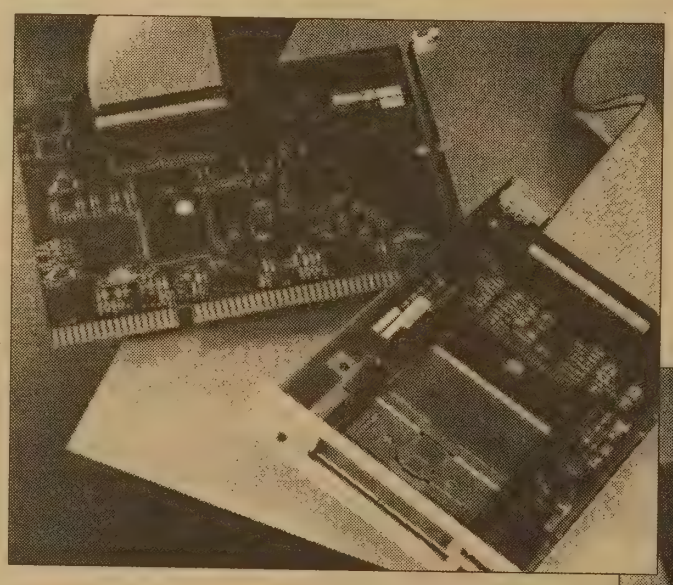
**The emergence** of PCMCIA slots has made sharing files between portable and desktop computers easy. It also lets you plug a wide range of peripherals into a standard interface that works with any computer equipped with a PCMCIA slot.

One such peripheral is the MobileMax hard drive card by Maxtor. These cards provide many advantages. First, inserting a new hard drive card adds storage capacity to your portable. Once you have done that, the hard drive card can be easily carried from location to location—or more precisely, from portable to portable. The earlier methods that let you remove the hard drive promised to make this process easier. The drawback was that you needed to have the same type of computer on both ends of your journey. PCMCIA frees you from being tied to a single manufacturer's product.

Maxtor's new DeskRunner provides a smooth integration between the laptop and desktop parts of my computer system. For a few dollars ($143 if you have to pay list price), this PCMCIA device fits into any 3.5" or 5.25" bay available on your desktop computer. It can read any hard drive card, flash memory card, or for that matter, any PCMCIA device you might want to use.

In my case, I wanted to use a hard drive that contained my entire working environment. DeskRunner allows me to travel with up to 131MB of applications and data and use any portable that has a PCMCIA slot. With this worry resolved, I have been finding other uses for the PCMCIA capability on my desktop. For instance, as one hard drive becomes full, plugging in a new card gives me another hard drive. The possibilities are limited only by your imagination.

The capacity of these 1.8" hard drives is growing larger almost monthly. When I first learned about these products, Maxtor's largest MobileMax card was 105MB ($384). By the time I got a portable with a PCMCIA slot, new models held 131MB ($423). And by the time you read this, Maxtor's newest 171MB model should be available. Maxtor plans to introduce increasingly larger drives in the near future.



As the capacity of these mini drives begins to rival conventional 3.5" drives, it is easy to foresee the day when hard drive PCMCIA cards will be used everywhere—not just in higher-end business settings. There seems to be no compromise in performance and it is unlikely that as demand grows there will be a premium charge associated with these drives.

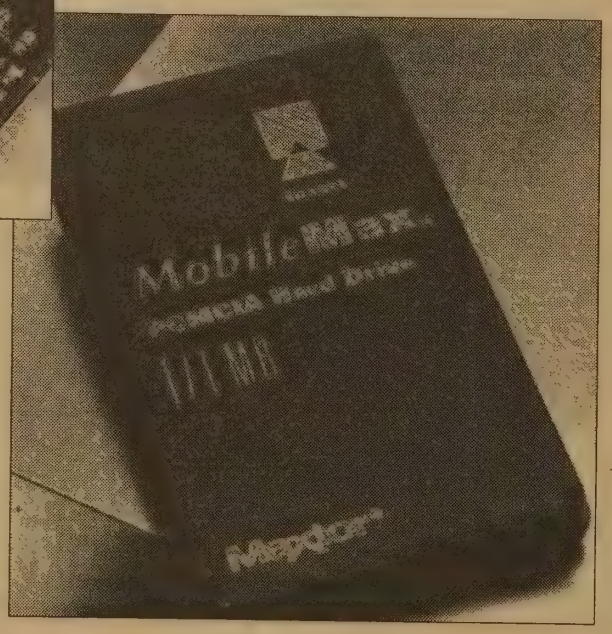
I can also see the day when you will want more than one DeskRunner installed on your desktop computer. These hard drives can be as flexible as floppies. Huge databases, for instance, can be stored on a hard drive card and inserted into the DeskRunner when needed. The ready availability of vast amounts of mass storage will enhance the usefulness of both desktop and laptop computers as well as fully integrate the two.

The MobileMax hard drive comes formatted and ready to use. The design is fabulous. You can unplug one drive and insert another whenever the drive is not being accessed. All you need to do is wait until the red light on the front of the DeskRunner goes out. Then there is no need to power down to swap drives. No more will you need to rely upon cables to transfer information between laptop, palmtop, and desktop machines! I consider this a major development in the evolution of computers.

Maxtor has priced the DeskRunner inexpensively so there is no reason for anyone not to have one on their desktop if they already have other PCMCIA equipped computers. While the prices of the hard drives are still a bit high, I expect that they will drop as the drives become increasingly popular. ■

**RESOURCES:**

**DeskRunner, $143**
**MobileMax PCMCIA Hard drives, $384 and up**
**Maxtor Corp.**
211 River Oaks Pkwy.
San Jose, CA 95134
1-800-2-MAXTOR



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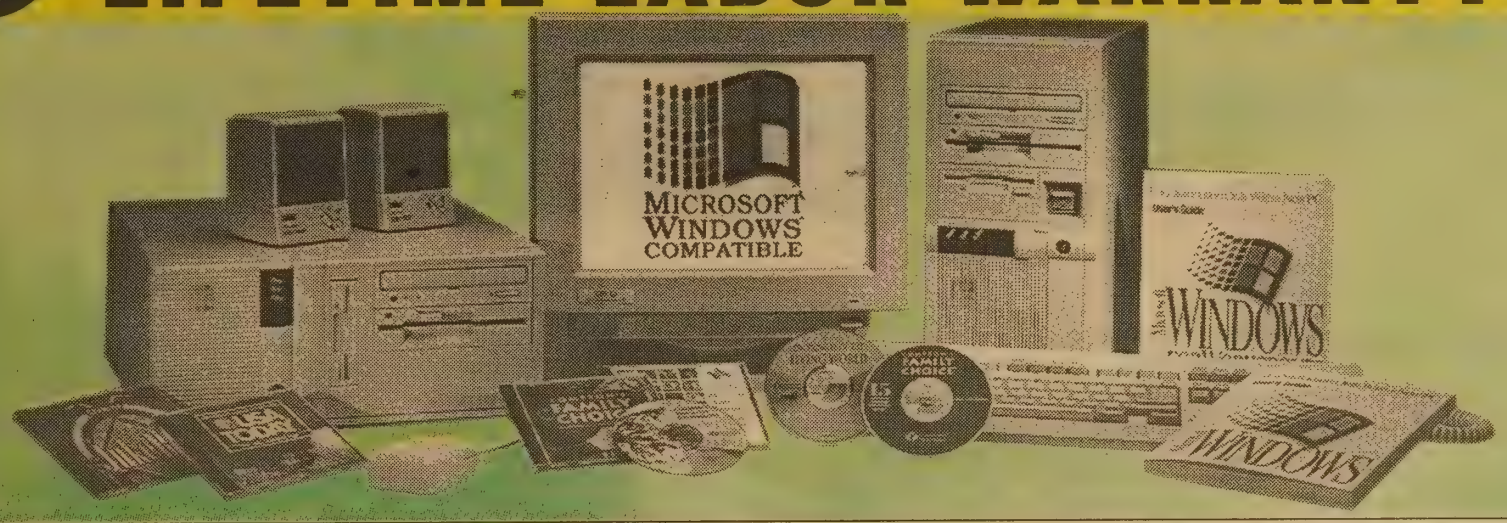


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- 101 Enhanced Keyboard
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### 486DX2-66MHz
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- CPU Cooling Fan
- 4MB RAM & Up To 32MB
- 420MB Harddisk (12MS)
- Mini Tower Case
- 1.44MB Floppy Drive
- VLB Super IDE & I/O
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| HP 4L Laser (after $50 rebate) | $589 |
| Epson LQ570 | $239 |

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| 25 watt Amplified Speakers | $32 |
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| Logitech Mouse | $29 |
| Microsoft Mouse | $29 |

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| 1.2, 1.5 GB SCSI | $Call |

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| SVGA 14" (0.39mm) | $195 |
| SVGA 14" (0.28mm) | $215 |
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| VLB 486DX/40MHz (AMD) | $259 |
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| VLB 486DX2/66MHz (AMD) | $339 |

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|---|---|
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| 8M SIMM MODULE (72 PIN) | $285 |
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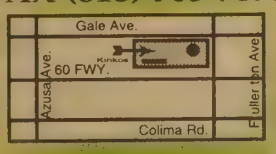


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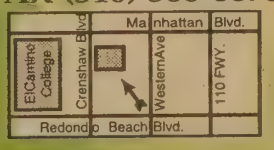


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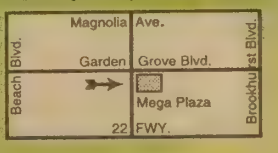


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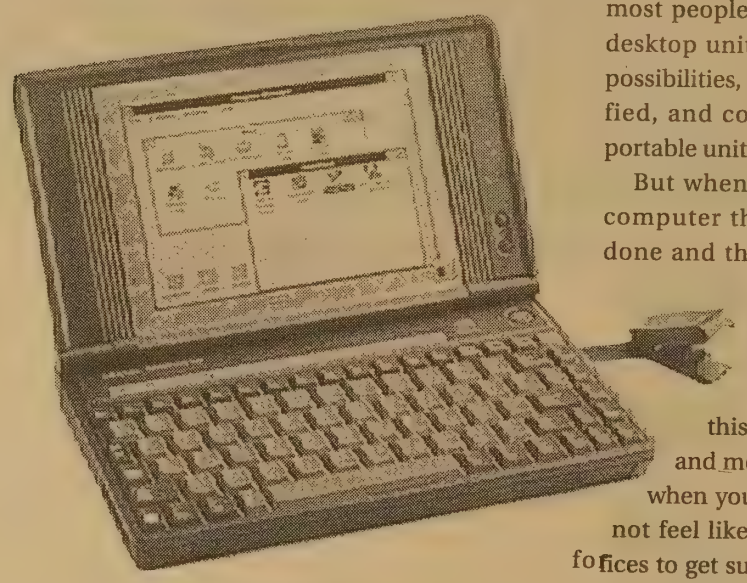
# Computer Of The Month

## Hewlett-Packard's OmniBook 530

**Subnotebook** computers get better and better all the time. When Hewlett-Packard first introduced the OmniBook series, I was truly impressed. Now, with its newest entry, the OmniBook moves from a computer that will "do the job" to one that does it nearly perfect. I still have a few complaints, but for the most part, this is the computer to get if you are on-the-go, but still work with a desktop machine.

Hewlett-Packard correctly sized up the problem when they designed this computer as a companion to a desktop rather than as a standalone product. Of course you can use a portable as your only computer, but



most people, I still recommend a rugged desktop unit that has infinite expansion possibilities, is easily upgraded and modified, and costs less than a comparable portable unit.

But when I am on the road, I want a computer that will let me get my work done and then allow me to transfer the files back to my desktop when I get home. The OmniBook 530 is the best choice I have seen for doing this—plus, it weighs only 2.9lbs. and measures 11.1" x 6.4" x 1.4". But when you use the OmniBook, you will not feel like you have made great sacrifices to get such a small unit. For instance, running Windows on this subnotebook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complements any desktop computer running Windows. You can use your standard applications and easily transfer your work back to your primary computer.

This is no weakling of a computer. It is powered by a 486 processor running at 33MHz and comes standard with 4MB of RAM, expandable to 8MB ($399) or 12MB ($649). A built-in pointing device works well enough that you will not feel greatly compromised when working in small spaces.

This latest OmniBook comes with a removable 131MB hard drive, which is actually a Maxtor PCMCIA hard drive. You can swap it for a larger drive if you need. In addition, you can buy an external 3.5" floppy drive ($199). There is a good chance you will never need this drive if you are content to transfer files from your desktop machine via LapLink. Both LapLink software and cables are standard with the OmniBook.

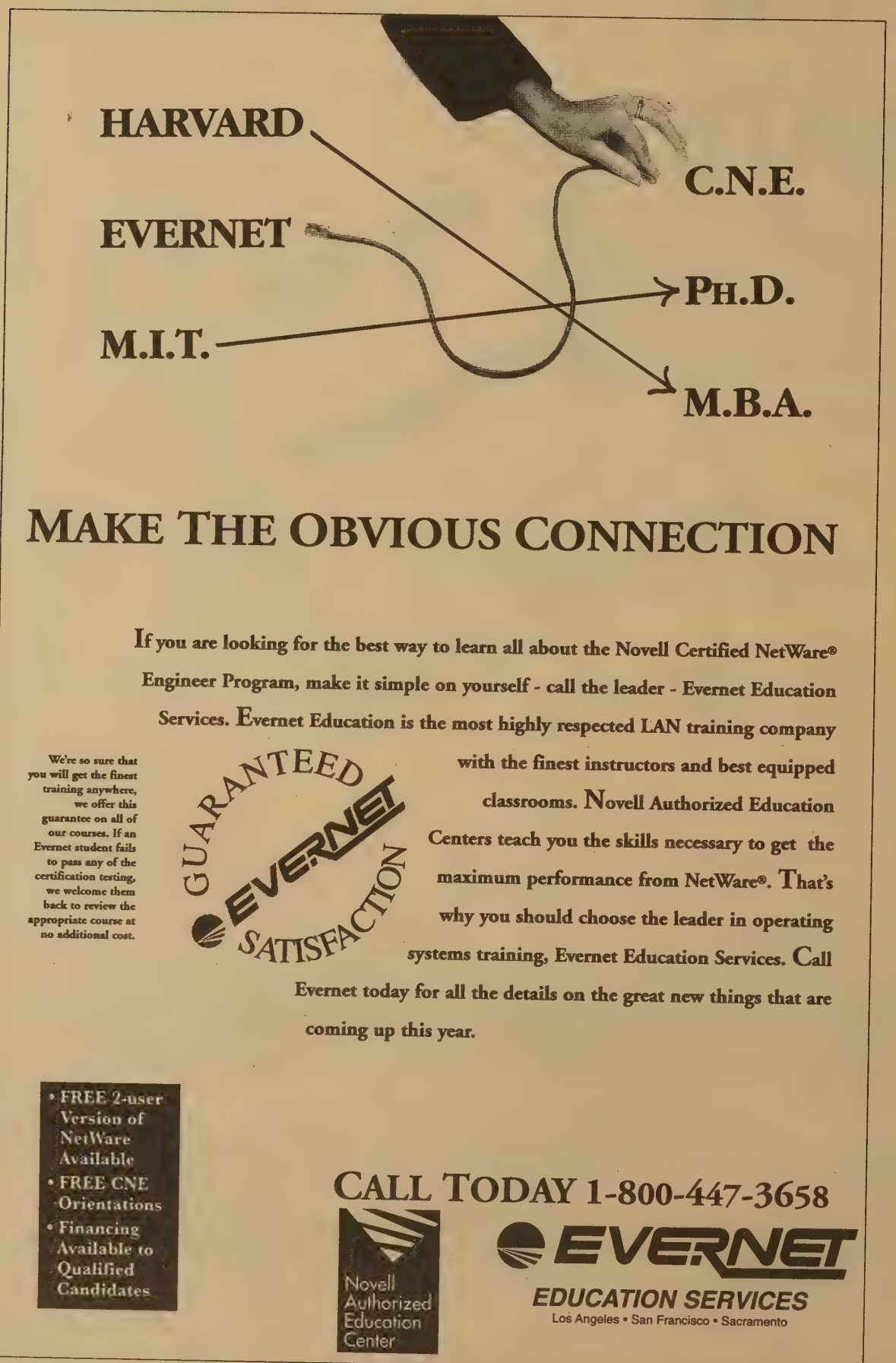
While Hewlett-Packard offers a built-in modem, it is easy to use any of the PCMCIA modem cards available on the market for both faxes and standard modem connections. The OmniBook 530 includes two PCMCIA Type 1 slots, in addition to the one that holds the system hard drive. But if you decide to use an additional hard drive card, it will occupy both of these slots.

> Hewlett-Packard correctly sized up the problem when they designed this computer as a companion to a desktop rather than as a standalone product.

This computer is so well designed that it is unlikely that you would be unable to find an alternative way to connect additional peripherals. Hypothetically, let's say that you wanted to use a second hard drive card and you still needed to connect a modem. Simply buy HP's built-in modem and work around the problem. Another option is to connect an external modem through the serial port. If you use the serial port for a peripheral, you can still use the parallel port to connect to the desktop machine. This tiny unit has plenty of connectivity.

For some time, the push was on to create smaller and smaller portable computers. Now that the companies have proven to us that they can make a computer as small as we might want, the challenge is to make a computer no smaller than what is actually convenient for the user. HP has reached the

*continued on page 178*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- PCI Bus I/O - 2S/1P/1G
- 3-btn. MS-compatible mouse
- 101-key Keyboard
- Award BIOS

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- AMI BIOS
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- Super VGA Graphics
- 14" SVGA 0.39dpi Monitor
- IDE / IO Interfaces
- Mini-Tower Case w/220-w PS
- 101-key Enhanced Keyboard
- 3-button MS-compatible Mouse
- FCC / UL / CSA Approved
- Two-Year Limited Warranty

## BudgetStretcher! 66
VESA Local Bus 486SLC-66 **$829**
Same as at left except CPU is the IBM 486SLC2-66MHz plus math co-processor running on VESA Local Bus architecture.

## FastGrafik!
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- Award BIOS
- 256KB External Cache
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- Cirrus 5428/1MB Graphics
- 14" SVGA 0.28dpi Monitor
- VL Bus I/O - 2S/1P/1G
- Mini-Tower Case w/220-w PS
- 101-key Enhanced Keyboard
- 3-btn. MS-compatible mouse
- FCC / UL / CSA Approved

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| GXE64 2mb VLB/PCI | $252 |
| GXE64 Pro 2mb PCI/VLB | $358 |
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| Cirrus Logic 1mb VLB | $89 |
| Trident 1mb ISA | $69 |

**Drive Controllers**

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|---|---|
| DTC 2280 ISA IDE I/O | $19 |
| DTC 2278 VLD IDE I/O | $29 |
| Acculogic PCI IDE | $39 |
| Future Domain 8bit SCSI | $39 |
| Adaptec 1510/1520/1540 | $64/69/189 |
| Adaptec 2940 PCI SCSI | $289 |
| Adaptec 2940W | $349 |
| Adaptec 2842 VL | $249 |

**Keyboards**

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|---|---|
| 101 Enhanced Keyboard | $29 |
| Focus 2001 | $45 |
| Fujitsu Keyboard | $49 |
| Spillproof Keyboard | $39 |

**Mice/Joysticks**

| | |
|---|---|
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| Mach 1 Plus | $19 |
| Mach 3 | $29 |
| Dexxa Cordless Contoller | $35 |
| Flight Stick | $59 |
| Virtual Pilot Yoke | $65 |

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| Scanjet IIp | $479 |
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| Scanmaker IIsp | $769 |
| Scanmaker IIhr | $1083 |
| Scanmaker III | $2395 |
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| 540Mb IDE | $279 |
| 1 Gig SCSI | $599 |

**Fax/Modems**

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| Supra 14.4k Int. | $79 |
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| Wave Blaster | $179 |
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| Game Blaster CD 16 Kit | $375 |
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| Digital Edge CD-Rom Kit | $669 |
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| Beethoven Supersound 16 | $109 |
| SuperSpin 230ms CD-ROM+6 Titles | $159 |
| CD-ROM & Sound Card | $249 |
| CD-ROM, Sound Card + 7 CD Titles | $269 |
| CD-ROM, Sound Card + 19 CD Titles | $349 |

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| DX15/MX15F 15" SVGA | $379/479 |
| DX17 17" / MX21F 21" SVGA | $649/1725 |
| **NEC** | |
| 3V 15" SVGA | $471 |
| 4FGE SVGA 15" | $627 |
| 5FGE 17" SVGA | $979 |
| **VIEWSONIC** | |
| ViewSonic V6E 14" | $269 |
| ViewSonic 15EX/V15 | $399/441 |
| ViewSonic 17E/17G/V17 | $729/799/899 |
| **Mitsubishi** | |
| Diamond Pro 15FS | $469 |
| Diamond Scan 17FS | $939 |
| Diamond Scan 26H | $8499 |
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## Laptops *continued*

optimum size as to still be able to actually use a keyboard for word processing. The OmniBook 530 is as small as it can be and still accommodate a full-size keyboard. I can actually type on this machine. The hand-held units are great for some applications, but not for word processing.

The display is monochrome, but there is a video port for connecting a standard VGA monitor. This is a great advantage to people who either have access to a monitor at a second location or who need to make presentations. The built-in 9" display is adequate for most work you will need to do on-the-go.

There are a number of design features that make this computer a pleasure to use. First, when you turn off the system, it remembers

**RESOURCES:**
**OmniBook 530 $1,799**
**Hewlett-Packard Company Inquiries**
1000 N.W. Circle Blvd.
Corvallis, OR 97330
1-800-443-1245

where you were. When you return, you will be in exactly the same place as you were earlier—no buttons to press or procedures to follow. Simply turn off the OmniBook. Battery operation lasts about four hours before you will need to insert another battery pack (extras are $99) or use the included converter to switch over to AC. And the battery pack is nickel metal hydride, which means you do not have to worry about having the battery pack fully discharged before recharging.

There is lots more to say about the OmniBook 530, but if you are in the market for a super portable, Windows-based computer, look into this one. You won't be sorry. ■

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# Pentium, PCI, VLB, and ISA Under One Roof!

## We will compete with any Advertised System in this Magazine!

### PENTIUM PCI SCSI GIGABYTE SYSTEM
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Pentium 66MHz ..... $2249
Pentium 60MHz ..... $2128

- Intel Pentium Processor
- Pentium PCI Motherboard (US made)
- 4 PCI, 5 ISA Slots
- 256K Cache
- 16MB Fast Ram, 72pin Access
- PCI SCSI II Adaptec #2940
- 1.0GB SCSI II Hard Disk
- 1.44 Floppy Disk
- ATi Win. Turbo PCI 2MB VRAM
- Mid Tower w/230W UL
- 101 Enhanced Keyboard
- Microsoft Mouse
- No Monitor

**UPGRADE:**
ViewSonic 17" .....+$799
Nanao F760iw .....+$1850
2.0GB .....+$600

### PENTIUM/486 PCI MULTIMEDIA SYSTEM
**CASH PRICE**

Pentium 90MHz ..... $2139
Pentium 66MHz ..... $1884
Pentium 60MHz ..... $1769

- Intel Pentium Processor
- Pentium Motherboard
- 4 PCI, 5 ISA Slots
- 256K Cache
- 8MB Fast Ram, 72pin Access
- PCI IDE Enhanced Controller
- 540MB Hard Disk
- 1.44MB Floppy Disk
- PCI Diamond Stealth 2MB Win. Accelerator
- 15" Green, 1280x1024, .28 NI
- Flat Screen, Digital Control, EPA Energy
- Mini Tower w/Digital, UL Approved
- 101 Enhanced KB & High Res. Mouse

**UPGRADE:**
1.0GB IDE .....+$275

### GREEN VLB SYSTEM
**CASH PRICE**

486DX2-66MHz ..... $1149
486SX-33MHz ..... $989
486DX-33MHz ..... $1119
486DX-50MHz ..... $1189
486DX4-100MHz ..... $1489

- 486 DX/DX4, D.Green MB
- ZIF, AMI Bios
- 256K Cache Upgradable to 512K
- **8MB RAM 72pin Access**
- VLB Enhanced IDE w/256K Cache
- **420MB HDD**
- 1.44MB FDD
- 32 Bit VLB SVGA 1MB, 16M Color
- 14" 1024x768, .28dp SVGA Monitor
- Mini Tower Case w/Digital Display
- 101 KB Enhanced Keyboard
- Hi-Resolution Mouse 800dpi

**UPGRADE OPTIONS:**
Diamond Stealth 2MB ..... +$100
64 Bit #9 GXE 2MB ..... +$175
15" Digital, 1280x1024, .28dp, N-I ..... +$150
Multimedia Kit: SBC16, 2x CD ROM, 14 Titles, Speakers & Microphone ..... +$250

### GREEN 486 PCI SCSI MULTIMEDIA SYSTEM
**CASH PRICE**

486DX2-66MHz ..... $1819
486DX-33MHz ..... $1799
486DX4-100MHz ..... $2209

- Intel 486 Processor
- 486 Motherboard
- 4 PCI, 5 ISA Slots
- 256K Cache
- 8MB Fast Ram, 72pin Access
- PCI NCR SCSI II Controller
- 540MB SCSI II Hard Disk
- 1.44MB Floppy Disk
- PCI Diamond Stealth 2MB Win. Accelerator
- 15" Green, 1280x1024, .28 NI
- Flat Screen, Digital Control, EPA Energy
- Mini Tower w/Digital, UL Approved
- 101 Enhanced KB & High Res. Mouse
- 16bit SBC Sound Card
- Toshiba 3401 Dual Speed SCSI CD ROM
- 14 S/W Titles, Includes Grolier's Encyclopedia, Animals & Many More!
- Pair Speakers, Microphone

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486DX-33MHz ..... $1249
486DX4-100MHz ..... $1659

- Intel 486 Processor
- 486 Motherboard
- 4 PCI, 5 ISA Slots
- 256K Cache
- 8MB Fast Ram, 72pin Access
- PCI Enhanced IDE Controller
- 420MB Hard Disk
- 1.44MB Floppy Disk
- PCI SVGA Adapter 1MB Win. Accelerator
- 14" SVGA Monitor 1024x768, .28
- Mini Tower w/Digital, UL Approved
- 101 Enhanced KB & High Res. Mouse

**UPGRADE:**
PCI Diamond Stealth 2MB Win. Acc. ..... +$50
15" Green, 1280x1024, .28 NI ..... +$145
1.2MB Floppy ..... +$45

### GREEN 486 VLB MULTIMEDIA SYSTEM
**CASH PRICE**

486DX2-66MHz ..... $1479
486DX-33MHz ..... $1469
486DX4-100MHz ..... $1870

- Intel 486 Processor
- 486 Motherboard
- 3 VLB, 4 ISA Slots
- 256K Cache
- 8MB Fast Ram, 72pin Access
- VLB IDE Controller w/256K Cache
- 420MB Hard Disk
- 1.44MB Floppy Disk
- VLB Diamond Stealth 2MB Win. Accelerator
- 15" Green, 1280x1024, .28 NI
- Flat Screen, Digital Control, EPA Energy
- Mini Tower w/Digital, UL Approved
- 101 Enhanced KB & High Res. Mouse
- 16bit SBC Sound Card
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- Pair Speakers, Microphone

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PCI Diamond Stealth 2MB ..... 145
VLB Diamond Stealth 2MB ..... 130
VLB S3 1MB Win. Accelerator ..... 80
VLB Trident 9400CXi ..... 65

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15" KFC 1507 Digital, Green ..... 310
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14" Green SVGA .28dp NI ..... 245

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VLB IDE 2s,1p,1g Ports ..... 15
ISA IDE I/O ..... 10

### OTHER
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14400/96/24 Fax Modem ..... 80/30

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14 CD Titles Includes Grolier's Encyclopedia,
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NEC 510 3x Speed SCSI II
2w/Speakers, Microphone

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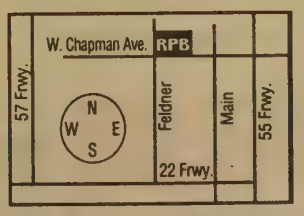


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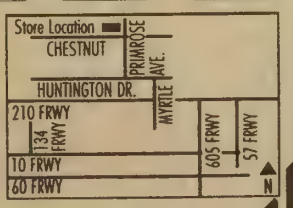


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Mid Tower or DeskTop Case w/Power Supply

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*Double Speed CD ROM
Magnetically Shielded Speakers
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16 Bit CD Quality Sound Card
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*With NEC Triple Speed CD ROM
$499

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3 VL-Bus Slots 4MB RAM
256K Cache, Pentium P24T Ready
Teac 1.2 or 1.44MB Floppy Drive
420 MB IDE Hard Drive
32-Bit V-Local Bus Super IDE & I/O
(2 Serial, 1 Parallel, 1 Game Ports)
32-Bit V-Local Bus SVGA Card w/1MB
14" SVGA Monitor (1024x768) .28 Color
101 Enhanced Keyboard & Mouse
Mid Tower or DeskTop case
w/230 Watt Power Supply

**486DX-33** ..... $999
**486DX2/66** ..... $1159
**486DX4/100** ..... $1599

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Apple Power price drop

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8MB/250HD CD-ROM AV
*Power and Speed*
• 60-MHz Power PC 601 microprocessor with floating-point processor and 32K cache
*Memory*
• 8MB of RAM, expandable to 72MB
*Video support*
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### Power Mac 7100/66

8MB/250HD
*Power and speed*
•66-MHz PowerPC 601 micro processor with floating-point processor and 32K cache
*Memory*
•8MB or 16MB of RAM, expandable to 136MB
*Video support*
•DRAM display support
•1 MB of VRAM for second display support, expandable to 2MB

$2399

### 8100/80

8MB/250HD
*Power and speed*
• 80-MHz PowerPC 601 microprocessor with floating-point processor and 32K cache
•256K level-2 cache
*Memory*
•8MB or 16MB of RAM expandable to 264MB
*Video support*
• DRAM display support
•2MB of VRAM for second display support, expandable to 4MB (8100/80 only)

$3499

### NEW APPLE POWERBOOK

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**TELECOMMUTING** • BY ROBERT MOSKOWITZ

# What Can We Learn From Telework Facilities Exchange?

## A new report offers insights into strategies and solutions that can make telecommuting even more viable and popular.

**Readers of this** column are familiar with the notion of exchanging facilities, most particularly in connection with California's Telework Facilities Exchange Program (or TFEP).

Briefly, the idea behind facilities exchange is that a telecommuter who works for company A can travel to the offices of company B, selected because they are located very near his or her home, and telecommute to work from there instead of from home or from a standalone telecommuting center. The "exchange" part comes in because an employee of company B can also telecommute, perhaps from offices of company A, but more likely from offices of company C.

The result is a game of "musical offices" in which each company theoretically gets a fair return on the loan of its facilities to others. As a practical matter, however, the presence of people from one organization on another organization's turf creates significant issues that require coordination, negotiation, and the establishment of some basis for maintaining fairness and equitability. That is one of the roles played by staff of the TFEP.

Attractive in theory—if only because all these offices already exist and could be put to use immediately at little or no start-up cost—it is only now that any practical experiences with facility exchanges are coming to light. The Final Report of the TFEP offers some interesting and unique insights into strategies and solutions that can make telecommuting even more viable and popular.

### The Final Report: Findings & Insights

The Facilities Exchange approach to providing workplaces (or seats) for telecommuters is more cost-efficient in three ways than alternative methods that develop telework centers and then try to fill them with telecommuters. First, there are no development costs, since the workplaces or seats already exist. Second, there are no (added) administrative costs since the workplaces are already part of functioning offices with their own administrators. Coordinators of facility exchanges at each of the host sites tend to be donated by the host organizations. Third, there are no wasted or unused seats, since there are no efforts to identify a workplace for exchange until there is a telecommuter willing to fill it.

Let's take a look at the numbers in more detail:

A typical fixed-site telework center might cost $300,000 for equipment, build-out, furnishings, cabling, and so forth, with another $30,000 spent on start-up design and planning. Annual rent might be $90,000. Center management, marketing, and advertising might add another $80,000 to its operating costs. In the first year, this amounts to $500,000, or about $42,000 per month. In the second and later years, rent, management, marketing, and advertising would require annual operating expenses of $170,000, or about $14,200 per month.

Facility exchanging, however, requires no capital expenditures and no annual rent. Its main expenses are only for marketing and advertising, and for management—which in this case includes recruitment, matching teleworkers with facilities, and continuing support as needed. Plus, the number of workplaces at a fixed-site center are necessarily limited, while the number of workplaces that can be made available under a facilities exchange program are limited only by the willingness of telecommuters and host organizations to participate.

An added benefit is that facilities exchange programs are far more flexible in geographical coverage than development of a particular telecommuting center. Studies show virtually every home in a U.S. urban area is within a few miles of some government or private office facility. Within a short time, a new seat can nearly always be found close to any willing telecommuter(s), while a fixed-site telecommuting center can successfully draw telecommuters from only a few miles around it. Drawing from any greater distance would only throw away the center's advantage in reducing commuting times and distances.

Guest **teleworkers** are more easily **found** in the suburbs and outlying **communities,** while organizations willing to allow **employees** to telecommute are **clustered** in the central **business districts.**

Another cost-effective aspect of facilities exchange is that organizations willing to be "hosts" to visiting telecommuters generally have more than one seat to offer, and each seat may be available several days per week. This means that the cost of finding the first seat for the first telecommuter in a given area constitutes the biggest outlay. From then on, it's free or

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## Telecommuting *continued...*

very cheap to find more seats for other telecommuters living in the same area. The implication is clear—as more telecommuters participate in facility exchanges, the cost per participant will plummet.

Training those in the Facilities Exchange program tends to be more expensive, primarily because they must be trained one or two at a time, rather than in the larger groups normally available when an organization launches a telecommuting project. So far, this has not become a major problem, because participants were able to get the bulk of their telecommuting training directly from their employers. However, special training materials were developed for the TFEP, and proved quite effective when given to each telecommuter for review with his or her direct supervisor.

An interesting pattern emerging from the TFEP experience to date is that host organizations willing to make seats available to guest teleworkers are more easily found in the suburbs and outlying communities, while organizations willing to allow employees to telecommute from other facilities are clustered in the central business districts. This works out very well in practice, because teleworkers tend to live in the outlying residential areas, close to workplaces available for exchange.

Another interesting conclusion is that participation in facility exchange is not as simple as "yes" or "no." Instead, participation builds gradually from initial interest until, after a period of time, the organization agrees to contribute teleworkers, workplaces, or both. TFEP staff termed this gradual move toward participation "the pipeline."

The earliest steps along the pipeline include an expression of interest by an organization, the identification of potential workplaces or telecommuters, and their approval by department heads and also by senior management. These steps tend to be focused inside the organization, and there is little anyone on the outside can do to hurry them along.

A second set of steps along the pipeline, however, TFEP staff can more readily facilitate. These include matching a teleworker to an available workplace, training the teleworker and the host coordinator, getting the teleworker to approve the available workplace, and getting appropriate managers to approve the schedule for use of the workplace.

In this pilot phase of the TFEP, sixty-six organizations were approached about offering a host seat for a guest teleworker. Thirty-one declined, but thirty-five organizations made it through the pipeline and now offer fifty available workplaces, of which thirty-one were put to regular use and remain in regular use today. In sheer numbers, this makes the TFEP the second largest (and the most cost-effective) telework center (staff call it an "uncenter") in California.

One of the most important factors in moving organizations along this pipeline turned out to be the presence of a local champion. These people were instrumental in identifying available workplaces, securing approvals from department heads and senior management, providing information to and coordinating site visits by potential guest teleworkers, and maintaining a schedule of workplace use and availability.


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## Telecommuting *continued...*

Not surprisingly, therefore, the loss of such a champion mid-way in the process of bringing the organization up to speed created a major barrier to successful participation in the TFEP. When a local champion leaves, or is reassigned to another part of the organization, readiness to participate in facility exchange tends to falter. Apparently, organizations are short of the resources needed to sustain their effort to join the TFEP. Perhaps if these efforts receive a higher priority in the future from senior management, the torch could be readily passed to a new champion and progress toward participation would continue.

### TFEP Telecommuters

A survey of TFEP's telecommuters yields some interesting insights. Half of the telecommuters are professionals, with another 38% describing themselves as managers and professionals. One is a para-professional. They tend to be stable employees, averaging nine years with their current employer, more than five years in their current work group, and more than four years in their current job assignment.

Nearly half of these participants favor a regular schedule of telecommuting days, while another 40% are comfortable with a regular schedule that can be changed according to the needs of their work group. Only 16% of the participants want to leave their telecommuting days open to ad hoc changes all of the time.

More than three-quarters of these telecommuters come from offices with compressed work weeks, with 50% on a 9-day/80-hour schedule and another 25% on a 4-day/40-hour rotation. This is important because many front-line managers who resist telecommuting do so by arguing that it is totally incompatible with a compressed work week. Clearly, it is not.

### Comparing Workplace Facilities

Comparisons between telecommuting from an exchange facility and telecommuting from home are also favorable. Participants tend to rate the exchange facility higher than a home office in terms of productivity and ability to do various types of work. Supervisors tend to rate an exchange facility as more desirable and acceptable than a home office.

And while commuting to an exchange facility is theoretically not much better than commuting to work, in practice, it cut commuting mileage and commuting time for today's participants by about 88%. Nearly 85% of the TFEP's telecommuters normally drive to work in a single occupancy vehicle. All but one (who walks) drive to their TFEP workplace the same way, but on these days they tend to use surface streets instead of freeways, and they drive an average of 33 miles less each way! They also reduce their commuting time an average of 54 minutes each way. This amounts to some 7000 fewer miles per month for participants in this pilot phase of the TFEP. The savings would be vastly greater as soon as more employees began telecommuting to an exchange facility.

One theoretical concern about facility exchanges is that telecommuters will want equipment and space requirements that are simply not available for exchange. In practice, however, participants described as "ideal" a telecommuting workplace that was very close to the workplaces actually made available. Most of the available seats include a PC-compatible computer with a color monitor, and access to a telephone, fax, and copier. Macintoshes and laptops are relatively unpopular among these telecommuters. About a third of the telecommuters in this pilot phase can work in private offices, with doors, that


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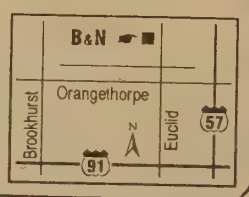


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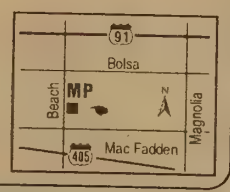

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average 95 square feet in size. Generally, though, the telecommuters' regular offices are more spacious and better equipped than their exchange workplaces.

Finally, not a single one of the TFEP participants expressed a desire to stop. Most say they anticipate continuing to telecommute one or two days a week for the foreseeable future. It's no wonder, then, that 88% of participants rate the TFEP pilot program successful.

**Participants** tend to rate the exchange facility **higher** than a **home office** in terms of productivity and **ability** to do various types of **work.**

For more information, or for a copy of the full report, contact: Walter Siembab, Project Director, (310)645-1129, fax: 310-645-3516. Ask about the Telework Facilities Exchange 1993–1994 Final Report.

## New Study Of Impacts On"Distance Workers"

The Institute for the Study of Distributed Work has received a grant from the AT&T Foundation to study the work styles of distance workers, and the impact of this work mode on the workers, as well as their families and communities.

If you feel you are a potential subject for this study, or you know someone who might be, please contact the Institute. All data will be strictly confidential and no individual information will be included in any of the technical papers or reports resulting from the study.

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Participants will receive a free copy of the executive summary of the final report. But as soon as they become available, these results will also be reported here.■

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| **Arcnet** | |
| ARC-120 ISA 8-bit Combo | 55.00 |
| ARC-220 ISA 16-bit Combo | 75.00 |
| **Ethernet 10 Base-T** | |
| AE-200LT ISA 16-bit (Novell Cert.) | 39.00 |
| **Ethernet Coax** | |
| AE-200LB ISA 16-bit (Novell Cert.) | 39.00 |
| **Ethernet Combo** | |
| AE-200LC ISA 16-bit 2-in-1 (Nov. Cert) | 49.00 |
| AE-200JL ISA 16-bit 2-in-1 Jumperless | 55.00 |

### ARTISOFT
| | |
|---|---|
| **Ethernet 10 Base-T or Coax** | |
| NodeRunner 2000 ISA 16-bit | 179.00 |
| NodeRunner 2000 MCA | 269.00 |
| NodeRunner 2000/A ISA 16-bit Combo | 239.00 |
| NodeRunner/SI 2000 ISA 16-bit | 106.00 |
| NodeRunner/SI 2000/A ISA 16 Combo | 135.00 |
| NodeRunner/SI 2000/A MCA Combo | 169.00 |

### D-LINK
| | |
|---|---|
| **Ethernet 10 Base-T or Coax** | |
| D-Link BNC Adapter | 79.00 |
| D-Link BNC & 10 Base-T Combo | 90.00 |
| D-Link PCI Combo ( RJ45/BNC ) | 199.00 |
| D-Link VL-BUS Combo (RJ45/BNC/AUI) | 299.00 |
| D-Link MCA Combo Adapter | 189.00 |
| D-Link EISA Combo (RJ45/BNC/AUI) | 295.00 |

### INTEL
| | |
|---|---|
| **Ethernet 10 Base-T / Coax** | |
| EtherExpress 16 ISA 16-bit | 109.00 |
| EtherExpress 16 ISA 16-bit Combo | 129.00 |
| EtherExpress 16 PRO 16 bit | 119.00 |
| EtherExpress 16 ISA Flash | 125.00 |
| EtherExpress 16 ISA Flash Combo | 145.00 |
| EtherExpress 16 MCA 32-bit | 189.00 |
| EtherExpress 32 EISA Flash | 249.00 |

### NOVELL / EAGLE / MICRODYNE
| | |
|---|---|
| **Ethernet 10 Base-T / Coax** | |
| NE2000 Plus ISA 16-bit | 95.00 |
| NE2000 Plus -3 ISA 16-bit Combo | 109.00 |
| NE/2C MCA | 265.00 |
| NE3200 EISA 32-bit | 499.00 |
| NE3210 EISA 32-bit | 189.00 |
| **Token Ring** | |
| NTR2000 TR ISA 16-bit | 319.00 |

### SMC
| | |
|---|---|
| **Ethernet 10 Base-T / Coax** | |
| Elite 16-Ultra ISA 16-bit | 115.00 |
| Elite 16-Ultra ISA Combo (RJ45/BNC) | 129.00 |
| Elite 32-Ultra EISA Combo(RJ45/BNC) | 239.00 |
| Ethercard Plus Elite16 ISA 16-bit | 125.00 |
| SMC EtherPower Combo PCI | CALL !! |

## SCSI CONTROLLERS

### ADAPTEC
| | |
|---|---|
| AHA-1522AK Adapter w/ Kit | 139.00 |
| AHA-1542CFK Adapter w/ Kit | 229.00 |
| AHA-1640 MCA Adapter w/ Kit | 359.00 |
| AHA-2842C VL-BUS Adapter w/ Kit | 259.00 |
| AHA-2742T EISA Adapter w/ Kit | 379.00 |
| AHA-2940 PCI Adapter w/ Kit | 299.00 |

## NETWORK MANAGEMENT

### NOVELL
| | |
|---|---|
| LANalyzer for MS Window v2.1 | 1,095.00 |
| LANalyzer Agent 1-segment | 1,095.00 |
| LANalyzer Agent Multi-segment | 1,839.00 |
| NetWare Management System v2.0 | 1,839.00 |

### DIGIBOARD
| | |
|---|---|
| 2 Port for Windows | 195.00 |
| PC/4E w/ Conn | 459.00 |
| PC/8E w/ Conn | 595.00 |
| PC/16EM System | 995.00 |
| EISA C/16 w/ Conn | 1,449.00 |
| ISA EPC/16 16 Port Multiport w/ Conn | 1,895.00 |

## NETWORK SOFTWARES

### ARTISOFT
| | |
|---|---|
| Articom Modem Sharing Software | 299.00 |
| Artisave Tape Backup Software | 249.00 |
| Central Station II for Printers & Modems | 439.00 |
| CorstreamServer 5 Users w/o Lan 6.0 | 749.00 |
| CorstreamServer 10 Users w/o Lan 6.0 | 1,469.00 |
| CorstreamServer 25 Users w/o Lan 6/0 | 2,389.00 |
| CorstreamServer 50 Users w/o Lan 6.0 | 3,109.00 |
| Lantastic for Machintosh Software Only | 449.00 |
| Lantastic for Machintosh Complete Kit | 599.00 |
| Lantastic 6.0 2 Station Starter Kit | 249.00 |
| Lantastic 6.0 1 User | 75.00 |
| Lantastic 6.0 5 Users | 269.00 |
| Lantastic 6.0 10 Users | 679.00 |
| Lantastic 6.0 25 Users | 1,349.00 |
| Lantastic 6.0 50 Users | 2,195.00 |
| Lantastic 6.0 1 User Upgrades | 39.00 |
| Lantastic 6.0 5 Users Upgrades | 99.00 |
| Lantastic 6.0 10 Users Upgrades | 145.00 |
| Lantastic 6.0 25 Users Upgrades | 349.00 |
| Lantastic 6.0 50 Users Upgrades | 589.00 |
| Simply Lantastic 2 Station Starter Kit | 239.00 |
| TCP/IP Connectivity 5 Users | 889.00 |
| TCP/IP Connectivity 10 Users | 1,549.00 |

### MICROSOFT
| | |
|---|---|
| Windows for Workgroup DOS Add-On | 49.00 |
| Windows for Workgroup WINDOW Add-On | 49.00 |
| Windows for Workgroup 3.11 Full Version | 149.00 |
| Windows NT 3.1 | 327.00 |
| Windows NT 3.1 Advanced Server | 959.00 |

### NOVELL
| | |
|---|---|
| Personal NetWare 1.0 (For Dos & Window) | 75.00 |
| Novell DOS 7.0 w/Personal Netware | 79.00 |
| NetWare 3.12 5 Users | 599.00 |
| NetWare 3.12 10 Users | 1,299.00 |
| NetWare 3.12 25 Users | 1,899.00 |
| NetWare 3.12 50 Users | 2,499.00 |
| NetWare 4.01 5 Users | 879.00 |
| NetWare 4.01 10 Users | 1,999.00 |
| NetWare 4.01 25 Users | 2,849.00 |
| NetWare 4.01 50 Users | 3,749.00 |
| NetWare 4.02 5 Users | 879.00 |
| NetWare 4.02 10 Users | 1,999.00 |
| NetWare 4.02 25 Users | 2,849.00 |
| NetWare 4.02 50 Users | 3,749.00 |
| NetWare UPGRADES !!! | CALL !!! |
| LanWork Group 4.2 5 User | 1,129.00 |
| LanWork Group 4.2 10 User | 1,895.00 |
| Netware MHS 1.5 10 User | 229.00 |

## TRANCEIVERS

### ADDTRON
| | |
|---|---|
| Thick to Thin Tranceiver | 55.00 |
| Thick to 10 Base-T Tranceiver | 55.00 |
| Fiber Optic Mini Tranceiver | CALL !! |

### ALLIED TELESIS
| | |
|---|---|
| ENET Trans 1 BNC & 2 AUI | 329.00 |
| ENET Trans 4 AUI & 1 BNC | 359.00 |
| ENET Trans FIBER / AUI FOIRL | 219.00 |

### IMC NETWORKS
| | |
|---|---|
| IMC Networkds Lanceiver w/ Vampire | 115.00 |

### RACAL INTERLAN
| | |
|---|---|
| InterLan Piercing 1 Port Thick | 99.00 |
| InterLan Micromau AUI to RJ-45 | 49.00 |

### SONIC SYSTEMS
| | |
|---|---|
| Sonic Systems AUI to BNC & RJ-45 | 85.00 |
| Sonic Systems AUI -2x to RJ-45 | 105.00 |
| Sonic Systems AUI -2x to BNC | 105.00 |

## REMOTE COMMUNICATIONS

### GENEWAY
| | |
|---|---|
| 4 Port LAN Expander | 1,295.00 |
| LAN Access Server, 4 MB | 1,459.00 |
| LAN Access Server, 8 MB | 1,619.00 |

### SHIVA
| | |
|---|---|
| LanRover 4/E- 4 Lines (BNC/AUI/10 BT) | 2,569.00 |
| LanRover 4/T-Token Ring | 3,369.00 |
| LanRover 8/E- 8 Lines (BNC/AUI/10 BT) | 3,669.00 |
| NetModem / E Commserv, BNC | 1,529.00 |

### U.S. ROBOTICS
| | |
|---|---|
| LAN Modem 14.4. | 1,295.00 |
| LAN Modem Token Ring 14.4 | 1,729.00 |
| Communication Server 386 | 1,519.00 |
| Shared Access Modem 14.4 | 539.00 |

### TELEBIT
| | |
|---|---|
| Telebit ACS 8 Port Gateway Dial In/Out | 2,839.00 |

## NETWORK HUBS

### 3COM
| | |
|---|---|
| LinkBuilder TPI 12 Port Hub | 379.00 |
| LinkBuilder 12 Port Hub (3Cb21) | 429.00 |
| LinkBuilder FMS II 12 Port | 649.00 |
| LinkBuilder FMS II 12 Port Mgmt | 995.00 |

### ADDTRON
| | |
|---|---|
| 4 Port Arcnet Passive Hub | 15.00 |
| 8 Port Arcnet Coax Active Hub | 125.00 |
| 8 Port Arcnet Twisted Pair Active Hub | 135.00 |
| 8 Port Ethernet 10 Base-T Hub | 159.00 |
| 16 Port Ethernet 10 Base-T COMBO Hub | 299.00 |
| 16 Port Ethernet 10 Base-T Hub | 399.00 |

### ALLIED TELESIS
| | |
|---|---|
| 4 Port Ethernet 10 Base T Hub | 379.00 |
| 8 Port Ethernet 10 Base T Hub | 429.00 |
| 12 Port Ethernet 10 Base T Hub w/SNMP | 899.00 |

### D-LINK
| | |
|---|---|
| D-Link 9 Port Hub | 195.00 |
| D-Link 12 + 2 Hub | 420.00 |
| D-Link 12 Port SNMP Hub | 839.00 |
| D-Link 12 Port SNMP Intelligent Hub | 895.00 |
| D-Link 4 Port Hub/Adapter | 295.00 |

### HEWLETT PACKARD
| | |
|---|---|
| AdvancedStack 12 2600a | 769.00 |
| AdvancedStack 24 2601a | 1,195.00 |
| 8 Port EtherTwist | 359.00 |

### SMC
| | |
|---|---|
| 8 Port Elite 3608 Concentrator | 329.00 |
| 12 Port Elite 3612 Concentrator | 549.00 |
| 12 Port Elite 3812 TP Active Hub | 699.00 |

### SYNOPTICS
| | |
|---|---|
| 16 Port 2800 Hub(16 RJ45/ 1 AUI) | 639.00 |
| 16 Port 2804 Hub(16 RJ45/ 1 FOIRL) | 959.00 |
| OTHER MODELS | CALL !! |

## NETWORK REPEATERS

### ADDTRON
| | |
|---|---|
| 2 Port Coax / Thick Repeater | 359.00 |
| 4 Port Coax / Think Repeater | 499.00 |
| 5 Port (2 BNC/ 2 RJ-45 /1 AUI) Repeater | 259.00 |

### ALLIED TELESIS
| | |
|---|---|
| 2 Port Coax Repeater( 4 BNC & 1 AUI ) | 359.00 |
| 8 Port Coax Repeater( 8 BNC & 1 AUI) | 1,295.00 |

### CABLE
| | |
|---|---|
| Repeater-2 BNC, 1 AUI | 449.00 |
| Repeater-2 BNC, AUI, & Fiber Optic | 719.00 |

### IMC NETWORKS
| | |
|---|---|
| BNC to BNC Repeater | 323.00 |
| BNC to RJ-45 Repeater | 369.00 |
| BNC to AUI Repeater | 499.00 |

### TUT
| | |
|---|---|
| Systems Repeater - 4 BNC / 1 AUI | 390.00 |

## TAPE BACKUP DRIVES

### CHEYENNE SOFTWARES
| | |
|---|---|
| ARC Serve 1 User | 159.00 |
| ARC Serve 5 Users | 269.00 |
| WINDOWS 5 Users | 269.00 |
| WINDOWS 250 Users | 1,589.00 |

### COLORADO MEMORY SYSTEMS
| | |
|---|---|
| DJ-20 250 MB Internal | 179.00 |
| Powertape 2GB Internal | 955.00 |
| Powertape 2GB External | 1,279.00 |
| Powertape 4GB Internal | 1,299.00 |
| Powertape 4GB External | 1,599.00 |
| Powertape NLM 5 Users | 319.00 |
| Powertape NLM 20 Users | 669.00 |
| Power DAT 6000 4GB Internal | 1,295.00 |
| Power DAT 6000 4GB External | 1,595.00 |

### CORNER
| | |
|---|---|
| Python 2GB Internal DAT Drive Only | 1,099.00 |
| Python 2GB External DAT Drive Only | 1,099.00 |
| Python Turbo 4-8GB Internal DAT Only | 1,099.00 |
| Python Turbo 4-8GB External DAT Only | 1,199.00 |
| Tapestor DAT Internal 2GB & NLM | 1,161.00 |
| Tapestor DC6000, 1.3 GB Kit | 1,027.00 |
| Arcada BackUp Software for | 299.00 |
| Arcada BackUp Software for | 599.00 |

### EXABYTE
| | |
|---|---|
| FS1G 1.5GB Tape Internal | 795.00 |
| FS1G 1.5GB Tape External | 949.00 |
| 8200 5GB Internal | 1,995.00 |
| 8200 5GB External | 2,295.00 |
| 8500 10GB Internal | 2,795.00 |
| Autochanger 48GB Tape External | 5,595.00 |

## FILE SERVER HARD DRIVE

### MICROPOLIS
| | |
|---|---|
| (!! BEST BUY !! 5Yrs Manufacture Warranty) | |
| 1.0 GB IDE | 689.00 |
| 1.05 GB [4410] SCSI-II 8.5ms | 679.00 |
| 1.7 GB [2217A] IDE | 969.00 |
| 1.7 GB [2217] SCSI-II 10 ms | 969.00 |
| 2.4 GB [1926] SCSI-II 11.5 ms | 1,399.00 |
| 3.6 GB [1936] SCSI-II 11.5 ms | 1,999.00 |

### CONNER
| | |
|---|---|
| 1.06 GB [1060S] SCSI-II 10 ms | 679.00 |
| 2.12 GB [2120S] SCSI-II 9.5 ms | 1,599.00 |

### SEAGATE
| | |
|---|---|
| 1.05 GB [ST11200N] SCSI-II 10.5 ms | 849.00 |
| 2.14 GB [ST12550N] SCSI-II 9ms | 1,829.00 |

### WESTERN DIGITAL
| | |
|---|---|
| 1.0GB IDE ( 2 Yrs Warranty ) | 599.00 |

## NETWORK BRIDGES

### 3COM
| | |
|---|---|
| NetBuilder Remote Office | 1,789.00 |

### CAYMAN SYSTEMS
| | |
|---|---|
| GaytorStar IHR 10 Base-T Router | 3,949.00 |

### COMPATIBLE SYSTEMS
| | |
|---|---|
| RISA Router 3000E Router | 2,299.00 |

### DIGITAL EQUIPMENT CORP
| | |
|---|---|
| BRouter 90Ti Router | 2,499.00 |

### DAYNE
| | |
|---|---|
| Ethernet High Speed Bridge | 2,639.00 |

### HEWLETT PACKARD
| | |
|---|---|
| Ethernet Router s/SNMP | 5,539.00 |

## NETWARE RAIDION SYSTEM

### MICROPOLIS
| | |
|---|---|
| Microdisk AV 1050 1.05GB External | 1,349.00 |
| Microdisk AV 1760 1.76GB Ext.w/Software | 1,629.00 |
| Microdisk AV 3020 3.02GB External | 2,899.00 |
| Microdisk LS 2100 2.1GB Ext.w/Software | 2,159.00 |
| Microdisk LS 3020 3.02GB External | 2,799.00 |
| Microdisk LT 1050 1.05GB External | 1,269.00 |
| Microdisk LT 1760 1.69GB External | 1,549.00 |
| Raidion 4200 3-2.1GB External SCSI-II | 6,799.00 |
| Raidion 6040 3-3.2GB External SCSI-II | 11,659.00 |

## OPTICAL STORAGE

| | |
|---|---|
| DynaMO 128MB R/W Kit | 1,049.00 |
| 1300T 1.3GB | 2,599.00 |
| CD Subsystem 1 | 1,659.00 |
| MERIDION CD Subsystem 4 | 3,199.00 |
| MERIDION CD Subsystem 7 | 5,159.00 |
| MERIDION CD Subsystem 14 | 16,849.00 |
| Discport CD Server | 639.00 |
| CD-ROM Writer | 3,995.00 |
| TAHOE Rewritable | 1,249.00 |
| 650MB Rewritable Kit | 2,250.00 |
| 128MB Optical Media | 59.00 |

## NETWARE CONNECT

### NOVELL
| | |
|---|---|
| NetWare for SAA 16 session | 1,479.00 |
| NetWare for SAA 62 session | 4,419.00 |
| NetWare HostPrint 16 sessions | 879.00 |
| NetWare HostPrint 128 sessions | 2,195.00 |
| Novell NetWare Connect 2 port | 439.00 |
| Novell NetWare Connect 8 port | 1,595.00 |
| Novell NetWare Connect 32 port | 4,395.00 |
| NetWare Multi Protocol Router | 729.00 |
| NetWare Multi Protocol Router Plus | 1,099.00 |
| NetWare for Macintosh v3.12 200 User | 729.00 |
| NetWare for Macintosh v4.0 Unlimited | 879.00 |

## NOTEBOOK ETHERNETS

| | |
|---|---|
| ( Pocket Ethernet ) | |
| Addtron Pocket Ethernet | 159.00 |
| Pocket Ethernet III | 289.00 |
| Xircom Pocket Ethernet III Combo | 319.00 |
| ( PCMCIA ) | |
| 3Com Etherlink III 10 Base-T | 259.00 |
| 3Com Etherlink III Combo | 309.00 |
| Credit Card | 239.00 |
| Xircom Credit Card Combo | 269.00 |

## NETWORK FAX SERVER

### SOFTWARE SOFTWARES
| | |
|---|---|
| FAXServer v2.0 NLM 10 Users | 339.00 |
| FAXServer v2.0 NLM 25 Users | 469.00 |
| FAXServer v2.0 NLM 50 Users | 599.00 |

## NETWORK PRINT SERVER

### BELKIN
| | |
|---|---|
| Belkin Ethernet 3+3 Print Server | 461.00 |

### CASTELLE
| | |
|---|---|
| LANpress Extra 1P 1S BNC & RJ-45 | 399.00 |
| LANpress Extra 2P 2S BNC & RJ-45 | 479.00 |
| JettPress MIO-Extra BNC & RJ-45 | 439.00 |
| JettPress XIO-Extra BNC & RJ-45 | 399.00 |

### DRYNE
| | |
|---|---|
| EtherPRINT 4 Device & AUI BNC/RJ-45 | 475.00 |

### DIGITAL PRODUCTS
| | |
|---|---|
| NETprint 50 1 Parallel, RJ-45 | 379.00 |
| NETprint 150 3P 1SP Combo | 695.00 |

### EAGLE
| | |
|---|---|
| Eagle NPE400 Ethernet Combo | 369.00 |

### EMULEX
| | |
|---|---|
| NETQ Novell, Apple, TCP/IP & DEC | 595.00 |

### HEWLETT PACKARD
| | |
|---|---|
| HP Jet Direct TP/BNC | 437.00 |

### INTEL
| | |
|---|---|
| Intel NetPort II Ethernet | 417.00 |
| Intel NetPort Express XL Ethernet Combo | 479.00 |

### LANTRONIX
| | |
|---|---|
| EPS1 Multiprotocol | 529.00 |

### LEXMARK
| | |
|---|---|
| 4033 Printer Connect BNC or RJ-45 | 499.00 |

### PRINTMATE
| | |
|---|---|
| PrintMate 2P 1S BNC RJ-45 | 399.00 |

### PACIFIC DATA
| | |
|---|---|
| Directnet HP 3/ Novell | 359.00 |
| Directnet HP 3/ Multiprotocol | 549.00 |
| Directnet HP 4/ Novell | 359.00 |
| Directnet HP 4/ Multiprotocol | 549.00 |

### XIRCOM
| | |
|---|---|
| Pocket Ethernet Print Server | 294.00 |
| Ethernet Print Server-1P BNC or RJ-45 | 299.00 |

## NETWORK UTILITIES

### CHEYENNE
| | |
|---|---|
| Antivirus NLM | 899.00 |

### CHEYENNE
| | |
|---|---|
| InnocuLan NLM 20 Users | 329.00 |
| Utilities for NetWare | 269.00 |

### FTP
| | |
|---|---|
| NetWare Manager 1 Server | 349.00 |
| Early Warning System | 349.00 |

### FOURTHOUGHT
| | |
|---|---|
| Lan Auditor 50 Users v3.0 | 329.00 |
| Lan Shadow v4.0 | 669.00 |

### INTEL
| | |
|---|---|
| LanDesk Virus Protection | 739.00 |
| LanDesk Manager | 899.00 |

### SABER
| | |
|---|---|
| Lan Workstation | 129.00 |

### SYDEX
| | |
|---|---|
| Xtree Tools for NetWare | 549.00 |

## NETWORK UPS SYSTEMS

### APC
| | |
|---|---|
| Back UPS System 600 | 299.00 |
| Back UPS System 900 | 415.00 |
| Smart UPS System 600 | 409.00 |
| Power Chute Plus Software | 69.00 |

### TRIPP-LITE
| | |
|---|---|
| BC-600 UPS System Lan | 289.00 |
| BC-900 UPS System Lan | 389.00 |
| Omni 600 UPS System Lan | 359.00 |
| Power Alert Software | 65.00 |

## NETWORK CABLES

| | |
|---|---|
| **Cables** | |
| 25 Feet RG58A/U Coaxial Cable | 8.00 |
| 25 Feet RG62 Coaxial Cable | 12.00 |
| 25 Feet 10 Base-T Twisted Pair (Level 4) | 8.00 |
| **Connectors** | |
| 50 Ohm BNC Terminator (Thin Ethernet) | 2.00 |
| 93 Ohm BNC Terminator (Arcnet) | 2.00 |
| T-Connector | 2.00 |
| RJ-45 Connector | .89 |
| **Tools** | |
| BNC Crimping Tool | 25.00 |
| RJ-45 / RJ-11 Crimping Tool | 29.00 |
| RJ-45 Crimping Tool | 19.00 |
| RG-58 / 62 Wire Stripper | 25.00 |

## LOCAL / WIDE AREA BUSINESS NETWORK SOLUTIONS

*We specialize in the following areas:*

1. *Complete Novell NetWare Installation*
2. *Network Cable Installation*
3. *On-Site Service & Training*
4. *Network Maintenance Contracts*
5. *CNEs to serve your needs*

NOVELL — 3Com — TRIPP LITE — ARTISOFT

### BSI FILE SERVER

| | |
|---|---|
| Pentium-90 Mhz | $2,149.00 |
| Pentium-66 Mhz | $2,045.00 |
| Pentium-60 Mhz | $1,879.00 |
| 486DX2-66 Mhz | $1,299.00 |

- Motherboard w/ 256K Cache
- 8MB of Memory, 70ns
- Monochrome Card
- 14" Monochrome File Server Monitor
- Super IDE & I/O Card (2S,1P,1G)
- 540MB IDE Hard Drive
- 1.44MB Teac Floppy Drive
- Mini-Tower File Server Case w/ UL Power Supply
- 101-Enhanced Keyboard
- Novell Certified Network Card

### BSI WORKSTATION

| | |
|---|---|
| 486DX2 66 Mhz | $699.00 |
| 486DX-33 Mhz | $657.00 |
| 486SX-33 Mhz | $599.00 |
| 386SX-40 Mhz | $429.00 |

- Motherboard w/ Cpu
- 2MB of Memory, 70ns
- Monochrome Card
- 14" Monochrome Monitor
- Mini-Tower Workstation Case w/ Power Supply
- 101-Enhanced Keyboard
- 1.44MB Teac Floppy Drive
- Novell Certified Network Card

### BSI SUPER SYSTEM

| | |
|---|---|
| 486DX4-100Mhz | $1,699.00 |
| 486DX2 66 Mhz (BEST BUY !) | $1,299.00 |
| 486DX-50 Mhz | $1,279.00 |
| 486DX-33 Mhz | $1,259.00 |
| 486SX-33 Mhz | $1,199.00 |

- VL-BUS Motherboard w/ 256K Cache
- 4MB of Memory, 70ns
- Super VGA Card w/ 1MB
- 14" Super VGA Monitor, .28mm
- Super I/O Card (2S,1P,1G)
- 540MB IDE Hard Drive
- 1.44MB Teac Floppy Drive
- Microsoft Compatible Mouse w/ Pad
- Mini-Tower Case w/ 200 Watts Power Supply
- 101-Enhanced Keyboard

### PENTIUM SYSTEM

| | |
|---|---|
| PCI Pentium-90 Mhz | $1,529.00 |
| PCI Pentium-66 Mhz | $1,399.00 |
| PCI Pentium-60 MHz | $1,296.00 |

- Pentium Motherboard w/ 256K Cache
- 8MB of Memory, 70ns
- Diamond SpeedStar Pro SE VGA Card
- 14" Super VGA Monitor, .28mm
- PCI IDE & I/O Card (2S,1P,1G)
- 540MB IDE Hard Drive
- 1.44MB Teac Floppy Drive
- Microsoft Compatible Mouse w/ Pad
- Mini-Tower w/ 200 Watts Power Supply
- 101-Enhanced Keyboard

### NETWORK YOURSELF

*Complete package to connect 2 computers*
*Includes:* 2 Network Operating Softwares
2 16-bit Ethernet Cards
2 25 ft Coax Cable & Terminators

ARTISOFT:
Lantastic 6.0 (Dos & Windows) 99.00

MICROSOFT:
Windows for Workgroup 3.11 Full Version 379.00
Window for Workgroup 3.11 Add-On 149.00

NOVELL:
Personal NetWare 1.0 (Dos & Windows) 239.00
NetWare Lite 1.1 149.00

*All prices are subject to change without prior notice

**!!! Government, School & Corporate P.O.s are WELCOME !!!**

# GENISYS MICRO CONCEPTS INT'L

## dba ASEAN COMPUTER TECHNOLOGIES, INC.

● 20425 E. VALLEY BLVD. ● WALNUT, CA 91789 ● TEL: (909) 598-2828 FAX: (909) 598-5748 ●

## GENISYS 486 *"COLT"* VESA LOCAL BUS SYSTEM

- **VLB** 486 M/B w/**256K Cache**
- **4MB** RAM
- MEDIUM TOWER (H) w/230W P/S
- 101 ENHANCED K/B
- **SHAMROCK** 14" SVGA .28mm NON-INTERLACE FULL SCREEN MONITOR
- **S3-805** (DIAMOND STEALTH COMPATIBLE) 32-BIT VLB VIDEO w/1MB (EXP. TO 2MB)
- 32-BIT VLB IDE & AT I/O (2S/1P/1G)
- **420MB** IDE HARD DRIVE (12MS)
- EPSON 3.5" 1.44MB FLOPPY DRIVE
- HI-RES 3-BUTTON MOUSE

☞ **486DX-40VLB..... $950**
☞ **486DX2-66 VLB..... $999**

**FALL UPGRADE SPECIAL**

| | | |
|---|---|---|
| 1 | ADDITIONAL 4MB RAM | $145 |
| 2 | 420MB TO 540MB H/D | ASK |
| 3. | 14" TO 15" SHAMROCK / CTX .28 NI MONITOR | ASK |

### SYSTEM UPGRADE OPTIONS

| | |
|---|---|
| - VL-230 VLB Caching Ctrl w/Hi-Speed I/O | +$70 |
| - VLB Diamond Stealth 32 (Special) w/2MB | +$60 |
| - VLB Diamond Stealth 64 (Special ) w/2MB | +$180 |
| - VLB Viper w/2MB | +$180 |
| - 15" ViewSonic 15E .28mm | +$145 |
| - 15" ViewSonic 15EX .28mm | +$165 |
| - 15" ViewSonic 15G .28mm | +$175 |
| - 15" ViewSonic 15 .28mm | +$185 |
| - 17" ViewSonic 17E .28mm (1280x1024) | +$480 |
| - 17" ViewSonic 17G .28mm (1280x1024) | +$550 |
| - 17" ViewSonic 17 .27mm (1600x1280) | +$650 |
| - 20" ViewSonic 20 .27mm (1600x1280) | +$1200 |
| - 21" ViewSonic 21 .25mm (1600x1280) | +$1350 |
| - US Robotics 14.4 Fax/Modem (Int) | +$115 |
| - ACT 14.4 Fax/Modem (Special) | +$65 |
| - ACT 96/48 Fax/Modem (Hayes Compt.) | +$30 |
| - ACT 28.8 Fax/Modem (Int) | +$150 |
| - Microsoft Ergonomic Carrerra 2.0 Mouse | +$30 |
| - Conner 250MB Tape Back up w/1 Free Tape | +$145 |

Genisys

## Multimedia Packages

***Sound Blaster 16 SCSI Multimedia Kit***
Sound Blaster 16-Bit SCSI Sound Card, Mini Speakers, 12 CD Titles
w/NEC CDR210 2X CD ROM..... $350
w/TOSHIBA 3401 2X CD ROM (200ms)... $350
w/NEC 510 3X CD ROM (180ms)..... $455

***Sound Blaster 16 Multimedia Kit***
Sound Blaster 16-bit Compatible Sound Card (Opti Chip Set), Mini Speakers, 12-CD Titles
w/Panasonic 562/3 (2X Speed) ..... $250
w/Mitsumi/Sony 33A (2X Speed) ..... $245

| | |
|---|---|
| Sony 33A 2X (Drive Only) | $125 |
| Mitsumi FX001 2X, 250ms (Drive only) | $125 |
| Panasonic 562 2X, 280ms (Drive only) | $140 |
| Mitsumi/Panasonic CD ROM Interface | $10 |
| NEC CDR-210 SCSI (Drive Only) 2X | $158 |
| NEC 510 SCSI (Drive Only) 3X, 180ms | $300 |
| Toshiba 3401B SCSI (Drive Only) 2X | $260 |
| Pair of Mini Speakers | $7 |
| Pair of 80W Amplified Speakers(Black) | $50 |
| Pair of 115W Amplified Speakers | $50 |
| 4 / 11CD Titles | $20/38 |

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- INTEL CPU w/COOLING FAN
- **8MB** RAM
- MED TOWER w/P/S
- **KEYTRONICS** KT-2000 KEYBOARD
- 14" SuperVGA .28DP NI MONITOR
- **DIAMOND** STEALTH 32 w/2MB
- IDE HD/FD INTERFACE
- 2SERIAL, 1PARALLEL PORTS
- **420MB** IDE H/D (12 MS)
- **EPSON** 1.2MB & 1.44MB FLOPPY
- **Trudox** Hi-res Serial Mouse

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**P5-66 ----- $1680**

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- **8MB** RAM (32-BIT MEMORY)
- MED TOWER w/P/S
- **KEYTRONICS** KT-2000 KEYBOARD
- 14" SuperVGA .28DP NI MONITOR
- **DIAMOND** STEALTH 32 W/2MB
- 2Serial, 1Parallel
- IDE CONTROLLER
- 2SERIAL, 1PARALLEL PORTS
- **420MB** IDE HARD DRIVE (12MS)
- **EPSON** 1.2MB & 1.44MB FLOPPY DRIVES
- **Trudox** Hi-res Serial Mouse

Special of the Month

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- Limited qty. on this SALE item. Sorry no exceptions!!

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### GENISYS 386SX-40 SYSTEM

- 386 SX-40 M/B w/CPU
- 2MB RAM
- Mni Tower w/P/S
- 101 Enhanced Keyboard
- 14" SuperVGA .39 Monitor (1024x768)
- 256K SuperVGA Adaptor
- IDE Ctrl & AT I/O (2S1P1G)
- 170MB IDE H/D
- 3.5" 1.44MB FDD
- HI-RES Serial Mouse

**$589**

*Starter System*

### GENISYS 386DX-40 SYSTEM

- 386 DX-40 M/B w/CPU
- 4MB RAM
- Mni Tower w/P/S
- 101 Enhanced Keyboard
- 14" SVGA Monitor .39 (1024x768)
- 512K SuperVGA Adaptor
- IDE Ctrl & AT I/O (2S1P1G)
- 210MB IDE H/D
- 3.5" 1.44MB FDD
- HI-RES Serial Mouse

**$688**

*Home / Office System*

### "IBM 486SLC-66" SYSTEM

- VLB IBM M/B w/Math-Co
- 4MB RAM (Max.16MB) & 128K Cache
- Mini Tower w/P/S
- 101 Enhanced Keyboard
- 14" SuperVGA Monitor.28 (1024x768)
- 32-BIT VLB Accl. Card w/1MB
- 32-BIT VLB IDE Ctrl w/AT I/O
- 210MB IDE H/D
- 3.5" 1.44MB FDD
- HI-RES Serial Mouse

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- Intelligent mode switching
- .25mm, 1600x1280, Non-Interlaced
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- MACINTOSH compatible

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| 15" Viewsonic 15E/15EX/15 | $345/365/405 |
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|---|---|
| Conner 210MB IDE | $155 |
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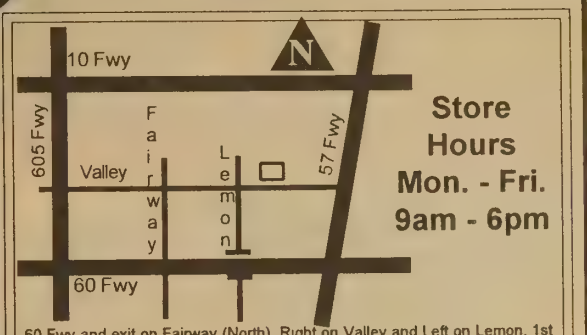
| Conner 1.06GIG SCSI (2-Y Warranty) | $550 |
| Quantum 540MB IDE (3-Y Warranty) | $235 |
| Quantum 540MB SCSI (3-Y Warranty) | $255 |
| Quantum 1.08GIG SCSI (3-Y Warranty) | $555 |
| Quantum 2.0GIG SCSI (3-Y Warranty) | $999 |
| Samsung 420MB IDE (2-Y Warranty) | $180 |
| Maxtor 540MB IDE | $255 |
| Western Digital 1.08GIG IDE (3-Y Warranty) | $499 |

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|---|---|
| Desktop w/230W p/s (6.5x16.75x17.25") | $42 |
| Mini Tower w/200W p/s (special) | $33 |
| Mini Tower w/230W p/s w/Dig. (12x16x7.25") | $36 |
| Med Tower H1/H2 w/230W p/s Digital Dis. | $45 |
| Med Tower w/230W p/s,digital display 6.5x16.75x17.25" | $69 |
| Full Tower w/250W p/s & digital display 24.5x17x7.5" | $69 |
| Full Tower w/250W p/s & dig. disp. w/2Fans. | $78 |
| Multimedia Desktop Case (2x20W Speakers) Desktop w/ P/S | $99 |
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BLACK CASES

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| Mini Tower w/230W p/s & Dig. Disp. | $58 |
| Med Tower w/230W p/s & Dig. Disp. | $75 |
| Full Tower w/250W p/s & Dig. Disp. | $90 |
| Super Tower (File Server), 2 Fans + 10 bays w/300W p/s/ w/wheels | $200 |

## VIDEO DISPLAY

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|---|---|
| HMC/UMC 16bit w/256K 800x600 VGA | $25.5 |
| OAK 087 1MB Graphics Accl. 1024x768 | $52 |
| Trident 9000 SVGA w/512K 1024x768 | $36 |
| Trident 8900 SVGA w/1MB 1024x768 | $55 |
| Cirrus Logic 5434 1MB PCI (exp.4MB) | $108 |
| Cirrus Logic 5428 1MB VLB Accel(exp. 2MB) | $72 |
| S3 (Stealth 24 compt.) VLB 1MB Accel | $73 |
| Mono Graphic w/Printer port | $15 |

Diamond Computer

| | |
|---|---|
| Stealth 24 VLB 1MB Accel. | $120 |
| Stealth 32 VLB 2MB Special | $138 |
| Stealth 64 VLB 2MB Accel. | Call |
| Viper VLB 2MB Accel. | $250 |
| Stealth 32 PCI | $150 |
| Stealth 64 PCI 2MB Accel. (Speical, Limited) | $238 |
| Viper PCI 2MB Accel. | $255 |

ATI Technology

| | |
|---|---|
| Mach 64 VLB 2MB | $220 |
| Mach 64 VLB 4MB | $465 |
| Mach 64 PCI 2MB | $280 |
| Mach 64 PCI 4MB | $465 |

## MODEMS + TAPE BACK-UP

| | |
|---|---|
| Conner Tape Back-up 250MB w/3M tape | $135 |
| Conner Tape Back-up 250MB (Ext.) | $260 |
| Colorado Tape Back-up 250MB | $150 |
| Jumbo Tracker JT20 250MB (Ext) | $299 |
| Colorado parallel port Tape Back-up External Drive Kit. KE-09 (no adapter) | $78 |
| Tape Drive Adapter AB-11 (for ext.) | $35 |
| Tape Back-up Cartridge 120/250MB | $15/18 |
| 9600/4800 Fax/Modem w/MNP7 | $33 |
| 14400 Modem int w/v.32/v.42 w/Fax | $65 |
| Super Fax - Windows software | $5 |

*U.S. Robotics Sportster Modems*

| | |
|---|---|
| 14400 Internal Data/Fax Modem | $129 |
| 14400 External Data/Fax Modem | $140 |
| 28800 Internal/External Data/Fax Modem | $199 |

## MOTHERBOARDS

Main Board (ISA)

| | |
|---|---|
| 386SX-40 w/CPU (Sarc) | $68 |
| 386DX-40 w/128K Cache w/CPU | |
| Opti Chipset | $92 |
| UMC Chipset | $85 |
| Sarc Chipset | $85 |

VESA Local Bus

| | |
|---|---|
| Cyrix VLB 486DLC-33/40+128K Cache +Math Co (Opti) (Special, Limited) | $180 |
| IBM VLB 486SLC2-66+128K Cache+Math Co 3xVLB slots (Made in USA) 30pin | $185 |
| QDI/JM 486SX/DX VLB+128K Cache | $73 |
| QDI/JM 486SX/DX VLB+256K Cache | $85 |
| Optional ZIF Socket | Add $10 |
| VEGA 486VLB+256K Cache (30pin) | $135 |
| VEGA 486VLB+256K Cache (72pin) | $162 |
| JM 3-486 VLB+128K Cache (Takes 386DX/486SX/DX CPU's) | $85 |
| QDI/JM Opti 486 VLB (30pin+72pin) ZIF 256K | $98 |
| 486 CPU Heat Sink & Fan | $8 |

EISA/VESA Local Bus w/o CPU

| | |
|---|---|
| Opti 486 EISA+256K Cache | $245 |
| FIC 486 EISA/VLB+256K Cache | $170 |

Pentium M/B w/o CPU

| | |
|---|---|
| Intel "Mercury Chipset" 60/66 PCI w/256K | $250 |
| Intel "Neptune Chipset" 90/100 PCI w/256K built-in IDE+2xHiSpeed I/O+1xparallel | $370 |
| Opti P5-60/66 PCI + VLB w/256K Cache | $215 |
| Opti P5-60/66 PCI + VLB w/512K Cache | $250 |
| Opti P5-90/100 PCI + VLB w/256K Cache | $320 |
| Opti P5-90/100 PCI + VLB w/512K Cache | $365 |
| Pentium CPU Heat Sink & Fan | $13 |

Please call for current CPU Price $$

## H/F CONTROLLERS

| | |
|---|---|
| VLB Super IDE ctrl. w/I/O (2H/2F,2S/P/G) | $20 |
| VLB IDE + I/O (Hi-speed serial) VESA | $35 |
| IDE Super IDE 2H/2F w/HiSpeed I/O | $25 |
| ISA Super IDE 2H/2F w/AT I/O | $15 |
| PCI IDE Ctrl (Hard Drive Only) | $30 |
| PCI SCSI Ctrl (NCR 810) | $65 |

PROMISE

| | |
|---|---|
| Promise ISA IDE w/512K (exp. 8.5MB) | $110 |
| Promise 4030 VLB IDE Cache(exp. 16MB) | $120 |

DTC

| | |
|---|---|
| 3270 VLB SCSI-2 | $130 |
| 3290AS EISA SCSI Cache ASPI comp | $395 |

ADAPTEC

| | |
|---|---|
| 1522 ISA SCSI | $100 |
| 1542C ISA SCSI Card Only / w/Kit | $165/260 |
| 2742T EISA SCSI | $260 |
| 2742A EISA SCSI Bus Master. w/Kit | $360 |
| 2842 VLB SCSI H/F w/kit | $260 |
| 2940 PCI SCSI Ctrl / 2940 PCI w/Kit | $199/300 |

## I/O CARDS

| | |
|---|---|
| AT I/O (2S/P/G) (Qty 20+ $8.50) | $13 |
| High Speed AT I/O (Qty 20+ $20) (16C550 comp., 2 serial/1 parallel ports) | $25 |
| Super IDE 2H/2F w/AT I/O (Qty 20+ $11) | $15 |
| VLB IDE ctrl +I/O (2H/2F,2s,p,g) (Qty 20+ $15) w/Hi-Speed I/O | $20 $35 |
| Printer card/Game card | $9/9 |
| ISA IDE/Hi-Speed I/O | $25 |

## KEYBOARDS

| | |
|---|---|
| BTC 101 Enhance 5339 | $20 |
| Keytronic 101 KT2000 (USA) | $35 |
| Fujitsu 4700 101 | $49 |
| Focus 2001 w/Dust Cover | $35 |
| F8000 111 Keys w/Calculator (soft) | $45 |
| Focus 9000 128 Keys w/Calculator | $55 |
| BLACK ACTi 101 Enh. K/B Qtronix | $42 |
| BLACK Focus 2001 101 Enh. K/B | $48 |

## MONITORS

ARCUS (Regular/Black)

| | |
|---|---|
| 14" 1488 SVGA (I) (.28 1024x768) E2E | $215/250 |
| 14" 1458 SVGA (NI) (.28 1024x768) E2E | $235/280 |
| 15" 1588 SVGA (NI) (.28 1280x1024) F/S | $330/365 |

CTX

| | |
|---|---|
| 1451LR 14" NI (1024x768 .28) | $250 |
| 1461LR 14" NI (1024x768, 72Hz) | $275 |
| 1562GM 15" (NI .28 1024x768,72Hz LR) | $330 |
| 15" LR 15" Digital NI (1024x768,.28) | Special |
| 1760LR 17" Digital NI (1280x1024,.28) | $630 |

**ViewSonic Authorized Dealer**

| | |
|---|---|
| 14E 14" SVGA (.28dp, 1024X768@NI) | $295 |
| 6E 14" SVGA NI (.28dp, 1024x768) | $255 |
| 15E 15" SVGA NI (.28dp, Flat screen, 76Hz) | $350 |
| 15EX 15" SVGA NI (.28dp, Digital, 76Hz) | $368 |
| 15G 15" SVGA NI (.28dp, Digital, Green, 76Hz) | $380 |
| 15 15" SVGA NI (.28dp, Digital, 76Hz) | $408 |
| 17E 17" SVGA NI (.28dp,1280x1024) | $688 |
| 17G 17" SVGA NI (Multi-Freq, .28dp,1280x1024) | $769 |
| 17 17" SVGA NI (.27dp, Digital, 76Hz, 1600X1280) | $860 |
| 20 20" SVGA NI (.28dp, Dig., 76Hz) | $1455 |
| 21 21" SVGA NI (.28dp, Dig., 76Hz) | $1600 |

SHAMROCK / MQ

| | |
|---|---|
| 14" SVGA (1024x768,.39) I (SRC) | $180 |
| 1428 14" SVGA (1024x768,.28) I (MQ) | $195 |
| 14" Full SVGA NI (1024x768,.28) (SRC) | $220 |
| 1528 15" FST SVGA NI (1024x768,.28) (SRC) | $335 |

TTL MONO (Monchrome)

| | |
|---|---|
| BTC 12" Amber TTL Mono | $75 |
| BTC 14" Paper White/Amber TTL Mono | $85 |

VGA Mono

| | |
|---|---|
| 14" Mono VGA (15pin) | $95 |
| 14" Mono SuperVGA (15pin) | $108 |

## CD ROM & ACCESSORIES

| | |
|---|---|
| *BESTBUY* Panasonic 562 w/interface | $140 |
| Mitsumi 2X CDROM w/interface | $135 |
| NEC 210 SCSI Internal SCSI CD-ROM | $165 |
| Toshiba CD3401B Internal SCSI CD-ROM | $250 |
| NEC 510 SCSI Triple Speed CD-ROM | $295 |
| Black Teac Dual Speed SCSI CD-ROM | $260 |
| Creative Lab Sound Blaster Basic 16/MCD (OEM) | $98/120 |
| Creative Lab Sound Blaster 16 SCSI | $159 |
| Creative Lab Sound Blaster 16 SCSI ASP | $190 |
| Opti SB-16 Compatible MCD | $72 |
| *New Teac CD55 Quad Speed (4X) CD ROM w/AT Interface* | $385 |

## MICE & TRACKBALLS

| | |
|---|---|
| Leadgen Hi-res Mouse(Serial) | $10 |
| Truemouse TXIAX300 (Serial) w/mouse pad | $15 |
| Truedox Trackball TB300 | $36 |
| Microsoft Mouse Serial/Bus | $45/75 |
| BLACK MS4000 (Serial) Hi-res Mouse | $22 |

## HARD DISKS/FLOPPY DRIVES

CONNER PERIPHERALS

| | |
|---|---|
| 210MB IDE | $168 |
| 250MB IDE | $189 |
| 420MB IDE | $198 |
| 540MB IDE | $260 |
| 540MB SCSI | $290 |
| 1.06Gig SCSI-II | $578 |
| 1.08Gig IDE (Special, Limited Supply) | $650 |

MAXTOR

| | |
|---|---|
| 170MB IDE | $145 |
| 290MB IDE | $185 |
| 340MB IDE | $190 |
| 405MB IDE | $195 |
| 540MB IDE | $260 |

QUANTUM

| | |
|---|---|
| 270MB IDE | $188 |
| 540MB IDE | $265 |
| 540MB SCSI | $285 |
| 1.08Gig SCSI-II | $585 |
| 2.0Gig SCSI-II | $1080 |

WESTERN DIGITAL (3-YEAR WARRANTY **)

| | |
|---|---|
| Caviar 2200 210MB IDE (15ms) | $160 |
| Caviar 2250 250MB IDE (13ms) | $180 |
| Caviar 2340 340MB IDE (12ms) ** | $190 |
| Caviar 2420 420MB IDE (11ms) ** | $200 |
| Caviar 2540 540MB IDE (11ms) ** | $270 |
| 730MB IDE ** | $395 |
| 1.08GIG IDE ** | $575 |

SAMSUNG (2-YEAR WARRANTY)

| | |
|---|---|
| 210MB IDE | $159 |
| 250MB IDE | $162 |
| 350MB IDE | $180 |
| 420MB IDE | $185 |
| 540MB IDE (Special) | $249 |
| Teac 1.2/1.44 | $48/35 |
| Teac 1.2/1.44 (Black) | $52/42 |
| Epson 1.2/1.44 (Ivory) | $42/32 |
| Teac FD505 2-in-1 Combo (1.2+1.44MB) | $35 |
| Epson BD800 2-in-1 Combo FDD | $46 |
| 1.44 Floppy Drive Kit | $3 |
| Hard Drive 5.25" Mounting Frame | $1 |

**Minimum order $300 or Qty 10+. Call for Dealer Qty Discounts and other products (CPU's, RAM, P.S., etc) prices.**

TERMS:1year warranty on parts & labor. Printers & monitors warranty thru manufacturer. All sales on RAM/CPU's,MONITORS & PRINTERS are final. NO REFUND! All returns are subjected to our approval & must have prior authorization. Return items must be in good condition & in its original packing shipped prepaid & insured. All refunds or credits are less freight & bank charges. All refund items must be returned within 14 days of invoice. There will be a restocking charge of 20% after the 7 days period & within 14 days of invoice. Not responsible for any typographical errors. Price & availability subject to change without any notice. Prices are COD cash/cashiers chk

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101 Enhanced Keyboard
Mid-Tower Case

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PC Computing rates IBM as slightly faster than Intel 486dx2-66
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IBM's 3 Year Warranty on M.B.
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Teac 1.2MB & 1.44MB Floppy
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VESA Windows Acc. 1MB Video Card SVGA 16M Color
101 Enhanced Keyboard
Mini Tower Case

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## This Month's SPECIAL

486dx2-66MHz VESA
8MB RAM, 256K Cache
420MB IDE Hard Drive
Teac 1.2 & 1.44 F. Drive
14" SVGA Monitor
VL-Bus Windows Acc. w/1MB
VL-Bus IDE I/O
101 Enh. Keyboard
Mini-Tower Case

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## 100MHz 486 V-LB

Intel 486dx4-100 CPU w/16k int. cache
Vesa Local Bus Mother Board
4MB RAM Upgradable to 128MB w/256k Ext. Cache
420MB IDE Hard Drive
Teac 1.2MB & 1.44MB Floppy Drive
14" SVGA Non-Int. .28 Monitor (1024x768)
VLB Windows Accer. Video Card w/1MB
VLB IDE I/O Card
101 Enh. Keyboard
Mini-Tower Case

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Teac 1.44Mb, 3.5" Floppy Drive
14" Super VGA Monitor,
.28 DPI Non-Interlaced (1024x768)
32 Bit VESA Windows
Accelerated 1MB
Super VGA Adapter, 1.6M Colors,
101 Enhanced Keyboard
Mini-Tower Case

| | Vesa Bus | | PCI Bus | |
|---|---|---|---|---|
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LANS • BY PETER JOHN HARRISON

# What's What: Bridges, Routers, And Switches

## The Right Connector For The Job

**Recently** a friend of mine called me up asking, "What's the difference between a bridge and a router?" It's a good question. The differences between bridges and routers are pretty subtle, and even people like Tom, who writes control programs for communications devices, didn't know the difference.

His confusion is understandable. Bridges and routers both perform the same kinds of functions within local and wide area networks (LANs and WANs). In a LAN, a bridge or router is used to divide the network into smaller, easier to manage network segments (often called "subnets"). Bridges and routers monitor the network traffic being sent on each network segment, and "forward" messages sent from one LAN segment to another.

Controlling the traffic sent between two LANs using a telephone connection is one of the more common uses of bridges and routers.

### Bridges And Routers: Similarities

The primary function of a bridge or router is to forward packets from the segment which they are being sent from to the segment to which they're bound. If, for example, you were sending packets (a "packet" is a message sent by network protocol, like TCP/IP) from segment A to segment F via a bridge or router, only segments A and F would see them, leaving segments B, C, D, and E free to carry other network traffic.

Limiting the information sent from one segment to another is even more important when the two segments are at different locations. WANs are made up of two or more LANs at different locations, connected by relatively slow telephone lines. Even fast 1.5Mbits-per-second "T-1" lines transport less than one-eighth as fast as a 10Mbps Ethernet LAN, so it's vitally important to restrict WAN traffic to those packets that have to go from one LAN to another. Controlling the traffic sent between two LANs using a telephone connection is one of the more common uses of bridges and routers.

### Differences

So far, we've only talked about how routers and bridges are similar. Now let's talk about how they differ.

For an exact definition of the difference between a router and a bridge, I called Alan L. Chamberlain, a sales support engineer at Synoptics and the host of the LAN conference on the WELL, an online conferencing system. He explained that the critical difference between a bridge and a router is which addresses they look at to establish the destination of each packet.

Most packets have two sets of addresses: a pair of hardware addresses for the sending and receiving network adapters, and a pair of addresses provided by the networking protocol (i.e., TCP/IP or IPX). Bridges forward packets from one segment to the next based on their destination hardware address. Routers use the addresses provided by the networking protocol. Each approach has its advantages.

Bridging based on the hardware address, for example, is pretty simple. Every time a network card sends a packet, it includes its own hardware address in the "source" address field of the data frame, which acts like an envelope the network packet is stuffed into. Because network cards generally hold prolonged conversations with each other, they learn each other's hardware addresses, and include them in the "destination" address included in the data frame.

Bridges also see all these addresses, and use them to build a table that maps known hardware addresses to the segment they're connected to. Then, when a bridge receives a data frame, it compares the destination address to the addresses stored in its table, and forwards the entire data frame, unchanged, on to the segment where the destination address is located. Perhaps the nicest thing about a bridge's simplicity is that it makes them easy to set up; if you're installing one to "segment" your LAN (and not to connect two locations over a phone line) they're usually just plug-and-play.

Routers are more complex and versatile. Because network packets usually contain some kind of information about their "network address," routers can make decisions about where to send each packet, without having to know where every node they forward packets to is located. They can also make intelligent decisions about the best way to get the packet to its destination.

Let's say, for example, that you're sending a message from network A to network C, and that there are two possible ways to get your message there. The first way is by sending your packet directly to network C over a 56Kbps leased line, the second is to send it over a fast 1.5Mbps "T-1" line to network B, which has a T-1 connection to network C. Even though the 56Kbps connection is more direct, a router can recognize that the roundabout T-1 connection is faster, and will send the message through network B. A router is also bright enough

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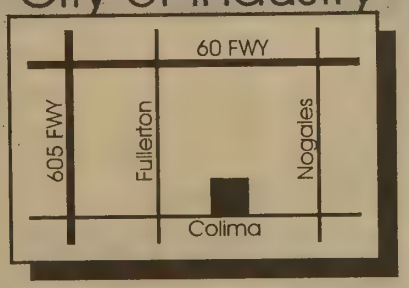


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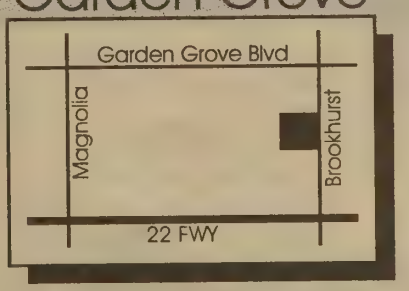


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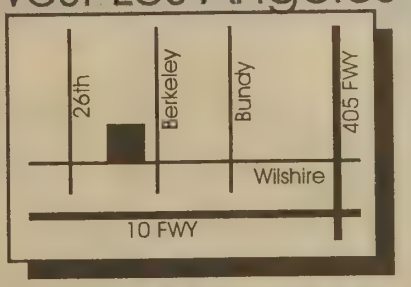


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**LANs** *continued...*

to know when its T-1 line to network B is broken, and will send messages to networks B and C through the slower 56Kbps connection until it's fixed.

Bridges can't do that; they'll always try to send data by the most direct route, even if it's slow or broken. Routers also have other capabilities that bridges don't, like the ability to "filter" out unwanted packets, like broadcast messages from a local server or transmissions from unauthorized users trying to access the LAN from somewhere on the Internet.

So routers are more versatile, but because they're more complex than bridges, they're also slower and more expensive. Routers are up to one-third the speed and two times the cost of a bridge.

Bridges and routers are both "store-and-forward" devices, meaning they read each packet into memory before trying to process it. For routers, which need much more information to process each packet before they can forward it, this is a necessary evil, but for bridges, which only need the first nine or twelve characters of each data frame before they can start figuring out where to send it, the store-and-forward method is a bit of a luxury. It's no surprise, then, that bridges are starting to be displaced by new, high-speed "switches," which do just that.

## Switches

A switch operates in much the same manner a bridge does, using the hardware addresses to build an address table and figure out where to send each packet. The difference between switches and routers is that switches work in real time, reading the address information as it is received, forwarding data frames on to their destination before the end of the data frame has even been received. Because a switch doesn't wait to receive the entire packet before processing it, it can operate at up to ten times the speed of a traditional bridge.

Because they were much more expensive than bridges, switches used to be reserved for use in networks where high performance was an absolute must, but as the cost of microprocessors has dropped, so has the price of network switches. These days you can buy an eight-port Synoptics switch for about the same price as a two-port Synoptics bridge, making switches not only faster, but also a lot cheaper on a port-by-port basis. ■

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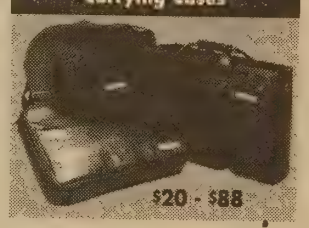
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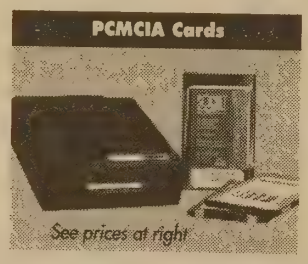
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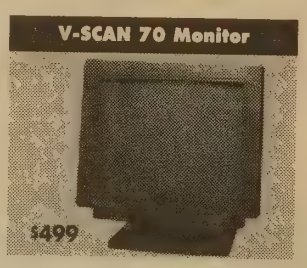
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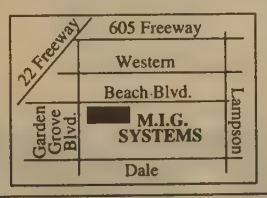


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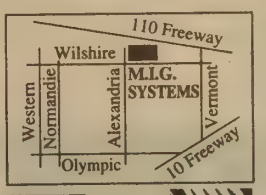


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# DOS vs. DOS

## IBM\Novell\Microsoft

BY LENNY BAILES

There are currently three versions of the DOS operating system available in the marketplace, from vendors Microsoft, IBM, and Novell. Although most users may not know it, there are differences between the three products, making each a unique operating system choice. Microsoft's DOS is the most widely used and most frequently installed of the three, but IBM's PC DOS 6.3 and Novell's DOS 7 include attractive alternative features not found in Microsoft's product.

PC DOS 6.3, Novell DOS 7, and Microsoft DOS 6.22 actually have more features in common than they do differences. All of them are compatible with the vast installed base of PC applications (including Windows 3.1). They all offer enhancements which constitute a significant upgrade from older versions of DOS (v5 and below). The improvements which all three DOS products share include: disk compression, anti-virus utilities, better backup programs, remote file transfer utilities, the ability to process multiple configurations from a menu, and smarter memory management.

•Disk compression allows your programs and datafiles to be transparently stored in a compact format that effectively doubles the size of your hard disk.

•The antivirus utilities shield the system from invasion and disinfect systems that have previously caught a virus.

•The backup programs all have graphic interfaces that make them more flexible than the hoary command-line utility in older DOS versions.

•Remote file transfers allow you to link two computers by serial or parallel cable, and easily copy data from one system to the other.

•The multiple configuration feature lets you choose alternate sets of startup files for your system from an initial menu, instead of tediously storing and renaming alternate versions of Config.sys and autoexec.bat.

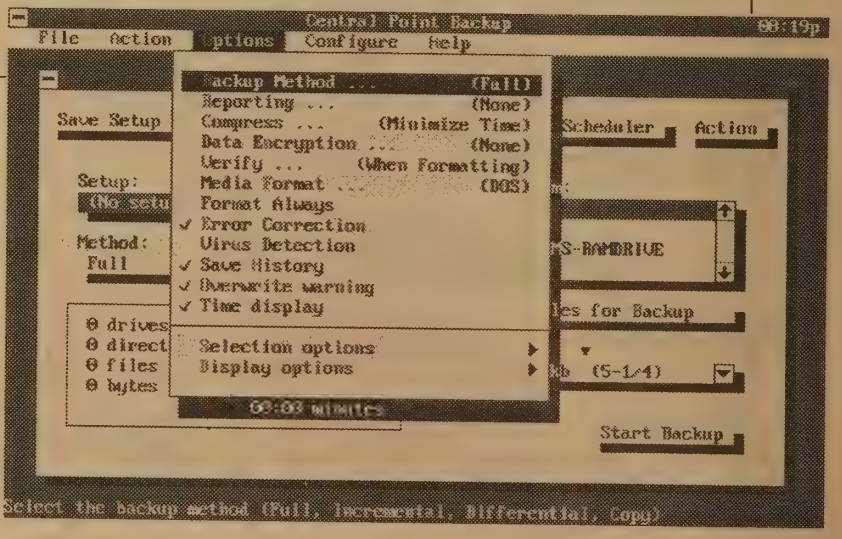
•Smart memory management automatically sets up your system for compatibility with applications that use expanded and extended memory, and also gives you more conventional memory by placing drivers above 640K.

Where the three versions of DOS differ is in implementation of some of these features and in the inclusion of extra operating system utilities.

### PC DOS 6.3

PC DOS 6.3 from IBM has the most aggressive installation routine of the three packages. It automatically places the antivirus checker and file manager shell in your startup configuration. It also gives you the option of installing the Central Point Backup program for DOS or Windows, PCMCIA support for laptop computers, and SuperStor disk compression.

**ONE FEATURE THAT BOTH IBM AND NOVELL OFFER, AND MICROSOFT DOES NOT, IS THE ABILITY TO CREATE UNIVERSALLY TRANSPORTABLE COMPRESSED DATA.**




PC DOS seems to be slightly more robust than either of its competitors, with slightly faster video refresh. Version 6.3 has better antivirus protection than the previous v6.1. Its list of over 2000 virus types is now on a par with Microsoft's and Novell's utilities.

Upon installation, I found that PC DOS reserved the most upper and conventional memory of the three products using the default configuration left over from a previous version of MS-DOS. When I ran the RAMBOOST memory optimizer, however, it tried to take some of this memory away. RAMBOOST, a module licensed from Central Point's PC Tools package, did not do as good a job as Microsoft's or Novell's utilities in automatically optimizing the system. This is because

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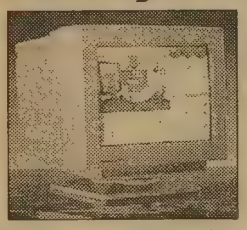

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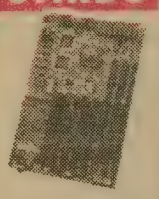

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RAMBOOST isn't as smart at scanning available upper memory upon installation. (IBM DOS found more memory available when it worked with a leftover configuration from Microsoft.)

In conjunction with third party memory management packages like Quarterdeck's QEMM or Qualitas' 386MAX, RAMBOOST is a good and convenient optimizing utility. Third-party memory managers have more sophisticated initial routines that scan the contents of upper memory. If the software (or a savvy user) has determined that the memory is available, RAMBOOST automatically places drivers and TSR-programs above 640K without cluttering your config.sys and autoexec.bat with extra modules. Unlike the Microsoft and Novell utilities, RAMboost automatically detects additions or deletions in Config.sys each time you boot the system, reoptimizing the contents of memory in a single reboot. RAMboost is also capable of optimizing multiple DOS configurations in Config.sys and Autoexec.bat.

The SuperStor disk compression included with PC DOS works, but is the least robust of three packages. Unfortunately, IBM's licensing agreement with Stac Electronics came too late for them to include Stac's superior compression module in v6.3. The older, SuperStor compression here does not have the data protection algorithms of Microsoft's and Novell's offerings. (One feature that both IBM and Novell offer, and Microsoft does not, is the ability to create universally transportable compressed data. Floppies containing up to 2.88MB of compressed data can be read on any system, not just on systems that run the appropriate version of PC DOS.)

Disk optimization with IBM's SuperStor program takes an intolerable length of time—three to four times longer than defragmenting a DoubleSpace drive with Microsoft DOS. Additionally, I encountered cross-linked file errors and other minor glitches on compressed volumes which had to be repaired by the slow SuperStor utilities. The IBM version of CHKDSK occasionally reported information that contradicted the SuperStor utilities. I had no trouble running programs stored on the drive and lost no data, but the disk compression isn't a PC DOS strong point.

What *is* a strong point for PC DOS is the excellent set of supplemental utilities it includes. At the top of the list are the Central Point DOS and Windows backup modules. IBM is the only one of the three vendors that supports tape drive systems. CPS Backup is full-featured, easy to use, and supports SCSI and QIC 40/80 tape media, in addition to floppy and image hard drive backups. The Windows backup program can run in the background (as much as any Windows program ever can), allowing you to continue working as you back up your system.

**MS-DOS v6.20 was a full-featured, bug-free operating system in its own right. MS-DOS v6.22 continues to offer the same reliability. The advantage that MS-DOS has over its competitors is its use by PC software developers as the base platform for applications.**

The PC DOS Undelete utility is also licensed from Central Point, and stronger than similar features in MS and Novell DOS. Undelete allows you to search the erased portion of your hard disk for specific program and data type. E.EXE, the text editor, includes a series of advanced macro capabilities, and handles multiple documents, allowing you to split the screen four ways. Other extra utilities are DRVLOCK/EJECT for controlling CD-ROM/Removable media, and utilities to support PCMCIA-based laptops.

The online help system for PC DOS is much less complete than either Microsoft's or Novell's, but IBM supplies extensive, well-written paper documentation. The package also includes a tutorial/self-help book on using DOS that should be very helpful to PC novices.

## Novell DOS 7

Novell DOS 7 is the heir to Digital Research's DOS 5/6 package. Rumors are circulating around the industry that Novell plans to discontinue this package, or even sell it outright to former Novell CEO Ray Noorda. It would be a shame to see this product disappear, since for the past three years, it's been the source of every innovative system feature. Loading programs above 640K, multiple system configurations, and a task-switching shell all happened first in DR DOS, later to be co-opted by Microsoft and IBM for their own products.

This version of Novell DOS has a unique multitasking shell that permits two or more applications to run simultaneously. It also features Novell's Personal Netware software. Personal Netware allows you to set up a peer-to-peer network among PCs running Novell DOS, or plug your computer into an existing Novell 2.x, 3.x, or 4.0 network. You can use Personal Netware to share disk drives, printers, and set up individual workgroups with specific access privileges. Both DOS and Windows modules are included. Personal Netware includes an SNMP (Simple Network Management Protocol) agent that allows a network manager to monitor the activity on individual workstations.

Another unique feature of Novell DOS is the DPMS (DOS Protected Mode Services) extension that permits disk cache, compression software and CD-ROM extensions to be loaded above 1MB, creating the potential for more conventional memory for DOS applications. (DPMS is similar to the "cloaking technology" used by third-party manufacturer Helix Software in their Netroom and Multimedia memory management products.)

The Novell installation program offers a series of easy-to-use configuration options for DOS system parameters, disk compression, disk performance and task management, but the package does not contain an upper memory optimizer comparable to IBM's RamBoost or Microsoft's MemMaker. On my system, Novell DOS installed with more conventional and upper memory than either of its competitors because my config.sys and autoexec.bat had already been optimized by Microsoft's utilities. Although Novell DOS creates the potential for more conventional memory, you may have to manually manipulate parameters in Config.Sys in order to achieve it. If you intend to continue adding and subtracting TSRs and device drivers from your startup files with Novell DOS, an additional third-party memory manager like QEMM, 386MAX, or NET-

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Novell's disk compression module is the best in the three DOS packages. It is a licensed version of Stac Electronics' Stacker, which creates more storage space and runs faster than SuperStor PC, DoubleSpace, or Microsoft's new Drivespace. Novell DOS is very forgiving, automatically recognizing both the IBM and MS-DOS 6.2 compression schemes. You can continue to use disk compression from your old operating system, or convert compressed drives to the Stacker format.

The multitasker/task switcher is relatively bug-free, allowing you to run multiple DOS applications in the background on 80386 and higher processors. You can even run Windows 3.1 as a separate task. Task Manager allows programs to run in full-screen windows, only. It's not the equivalent of Quarterdeck's DESQview, or Windows, itself, but it should be useful for people on a low software budget.

The extra system utilities in Novell DOS are a mixed bag. XDEL is a nifty tool for managing files and directories, but FILELINK, the remote transfer program, won't allow you to run applications remotely through a serial or parallel cable connection. FILELINK is also more touchy than the Microsoft/IBM INTERLINK utility, requiring a custom parallel cable. (FILELINK will allow you to access remote network or CD-ROM drives, which INTERLINK won't do.)

Both DOS and Windows versions of Fastback+ are provided as backup modules, but don't include support for tape media. The DOSBOOK online help system is the most complete of the three competing products.

I found no compatibility problems with Novell DOS on a single-user system, although I have heard reports that network users must sometimes burn the midnight oil in order to get all supported features to work correctly. Novell DOS also appears to run a bit slower than the Microsoft and IBM operating systems—Lotus 1-2-3 macros, desktop publishing screen redraw operations, etc., may take 5-20% longer to execute.

## MS-DOS 6.22

Microsoft's DOS is the standard to which competing packages must inevitably be compared. The upgrade from v6.20 contains only one new feature, the replacement of the DoubleSpace compression program with DriveSpace. To comply with the decision handed down in Stac Electronics' lawsuit, Microsoft issued DOS v6.21 in May 1994, with no disk compression at all. Several weeks later, DOS v6.22 appeared with DriveSpace.

For all practical purposes, DriveSpace is identical to DoubleSpace, with the same set of features and capabilities. The only difference is that data is stored on the compressed volume in a different format.

MS-DOS v6.20 was a full-featured, bug-free operating system in its own right. MS-DOS v6.22 continues to offer the same reliability. The advantage that MS-DOS has over its competitors is its use by PC software developers as the base platform for applications. Because it is most widely tested and has the greatest installed user base, MS-DOS offers the smallest risk of unexpected hardware or software conflicts.

Installation or upgrade to MS-DOS v6.22 is painless and transparent. The Setup program doesn't offer the same detailed options as Novell DOS, but it lets you choose which


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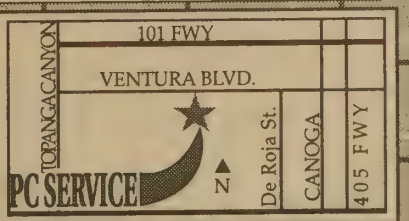

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# DOS vs. DOS *continued...*

drive to use for system utilities, and whether to install DOS and/or Windows versions of the antivirus and backup utilities.

The new versions of DriveSpace, Scandisk, Defrag, etc. are backwardly compatible with DoubleSpace compressed volumes created by DOS 6.0 and 6.2. Compressed backups created with the DOS 6.0 or 6.2 MSBACKUP program may be incompatible with v6.22's new compression algorithm, so Microsoft leaves the old backup programs in your DOS directory by default. You can also override this option and install the new backup programs. (Note: users of the Norton Utilities v8 or PC Tools Pro v9 may have to upgrade those packages in order to effect file recovery and disk repairs on DriveSpace volumes. Users of Quarterdeck's QEMM memory manager will need to upgrade to v7.03 or v7.04 to use Quarterdeck's special substitute for DBLSPACE.SYS.)

Microsoft's strong points: The MS-DOS system utilities don't always have the extra frills you'll find in PC and Novell DOS, but they get their job done. MS-DOS matches the two competitors on the majority of significant features: system reliability, file management, disk optimization, memory management, system diagnostics, and online help.

MemMaker is the most effective and reliable bundled memory optimizer, although it is not without quirks. (MemMaker may occasionally configure a program to load above 640K, and miscalculate the available UMB memory. Result: the program won't load at all until you manually edit your autoexec.bat.) As mentioned above, Novell DOS has a potential to provide more conventional memory because of its DPMS extensions, but configuring Novell DOS requires more user intervention. Microsoft DOS also includes the QBASIC interpreter and Microsoft Diagnostics programs not provided by either IBM or Novell.

Summary of points for the competition: IBM and Novell provide more utility installation options for novices. Microsoft's backup utilities don't support tape drives, as IBM's do. IBM's RamBoost memory optimizer can work well with third party memory management packages and system utilities have added functionality. Novell DOS includes an entire full-featured peer-to-peer networking system, and its Stacker module is a better disk compression system.

## RESOURCES

**PC DOS v6.3, $127 ($77 upgrade from any previous DOS version)**
**IBM**
1133 Westchester Ave.
White Plains, NY 10604
1-800-342-6672

**Novell DOS, v7**
$69.95 ($39.95 upgrade from previous version of DR DOS)
Novell, Inc.
122 East 1700 South
Provo, Utah 84606
801-429-7000
800-395-2480

**Microsoft DOS, v6.22, $77.95 (upgrade from any version, includes DOS 6.2 manual), $9.95 (stepup for v6.0 and up, without manual)**
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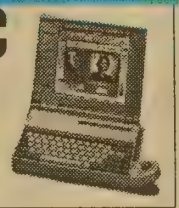

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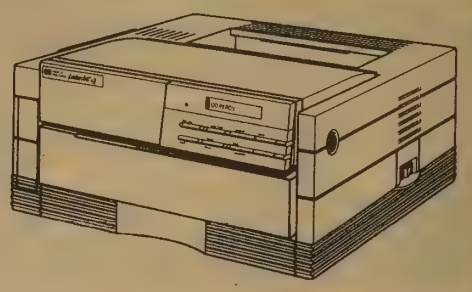

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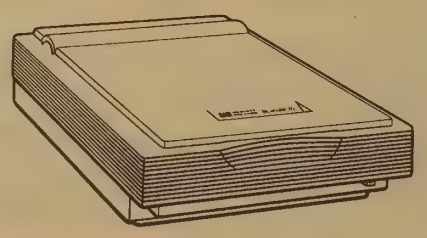

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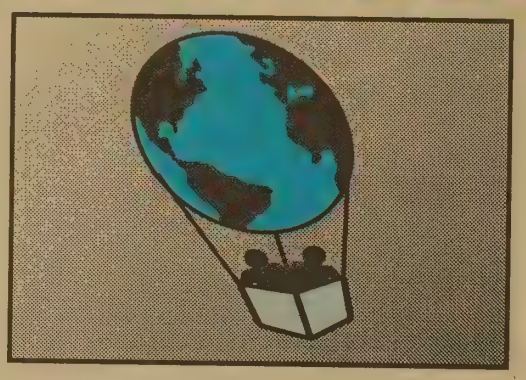

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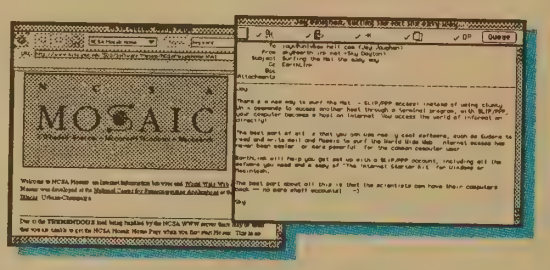


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# INTERNET CONNECTIONS In The Southland

By Stephanie Brail

One of the most Frequently Asked Questions on Usenet is "Can you recommend a good Internet provider in my area?" With interest in the Internet exploding and competition between old and new services rising, finding the right net access can be a confusing and challenging job

Fortunately, individual Internet fans in Los Angeles and Orange County have more and more Internet providers to choose from. Here's a look at the many ways you can hook up to the Internet in Southern California, from full-fledged UNIX providers to small BBSes offering a selection of email and news.

## Netcom

For a long time in Southern California, the only choice for Internet access was Netcom. Netcom helped revolutionize the business by bringing cheap, flat-rate UNIX service to California. Thanks largely to Netcom, many users became accustomed to affordable Internet access, and it paid off. In just a few years of business, Netcom grew into a formidable corporate entity, with twenty thousand users and nodes in almost thirty US cities.

Since the beginning of 1994, however, Netcom's growth has outpaced its capacity. Users have experienced such problems as intermittent busy signals, lag caused by high loads on the system, and random disconnects. Netcom support is furiously installing new machines, and some still swear that Netcom is the best bargain around.

Many Netcom users seem to have a love/hate relationship with the service though, which often clashes with the "Love it or leave it" sentiment running strong among its fans. Netcom's main in-house newsgroup, netcom.general, is almost worth the price of admission for the flame wars that go on daily. Some Netcom "lovers" even started a newsgroup called "alt.conspiracy.netcom" to discuss conspiracy theories about the service. Regardless of any personal quibbles users may have with the service and its controversial owner Bob Rieger, the Netcom mystique keeps new users flocking to the service in droves.

Netcom offers a basic UNIX dial-up account, complete with Clarinet newsfeeds and the full compliment of UNIX programs. One of the best features of Netcom isn't even provided by the staff: the Netcom Users Group List of Programs and Scripts (NUGLOPS) is a series of publicly

available shell scripts and programs created by a talented group of Netcom users. Many Netcom users stick with Netcom just for NUGLOPS.

Netcom's latest pride and joy is the new graphical interface NetCruiser, which uses a modified SLIP connection. NetCruiser is touted as an all-in-one package that includes point-and-click interfaces for Usenet, gopher, World Wide Web, and more. UNIX-frightened newbies who are allergic to text-based interfaces will find NetCruiser to be a relief; UNIX-experienced folks may find NetCruiser cumbersome and lacking in the power and flexibility of a UNIX account.

Those who can't get NetCruiser but need some help with UNIX, should take advantage of Netcom's great (and unadvertised) menu system, which can be accessed by typing "menu" at the main prompt.

### CRL

In spite of Netcom's new graphical interface, the service faces growing competition. Although San Francisco-based CRL has not previously engendered the same user loyalty Netcom has enjoyed, it is fast becoming a favorite alternative. While some complain that the customer service isn't that much better than Netcom's, others say that CRL's solid system and lack of busy signals (a perennial Netcom problem) are worth it.

CRL provides access in the 213 and 714 area codes, and so covers a slightly different area than Netcom does.

### KAIWAN

Personalized customer service may become another competitive point for many Internet providers. While one of the biggest complaints by Netcom's users is that support is often "anonymous," users of Netcom's competitor KAIWAN are presented with a homey, if somewhat too casual, service.

KAIWAN is a relative newcomer out of Garden Grove that is the provider of choice for many Internet users in Orange County. KAIWAN is quickly putting up local access phone numbers all over Los Angeles and Orange County, beating Netcom and CRL at local access and also offering something more: a lower price.

KAIWAN appears to be moving up quickly, with a new T1 Internet connection and new services added daily. Users have complained though about a strange drag on the system that doesn't appear to be connected to the number of users on board. The lag seems to have improved as of late, and those seeking a homier service and one-on-one interaction with support may find it here.

The company offers SLIP and PPP access, although it's still somewhat in the testing stage and not supported. Otherwise, the "kmenu"—though riddled with spelling errors—successfully navigates the system without UNIX.

## CineNet: Small Vs. Large Providers

KAIWAN is just one of many new local services popping up. CineNet in Santa Monica is a nice little service that offers a full dial-up account for $14/month (including five megs of disk space). You might wonder why you would want to go with Netcom (which costs a few bucks more), but users debating between a small service like CineNet or a large service like Netcom should know that each offers benefits and drawbacks.

For example, while you won't get busy signals dialing into CineNet, and lag is almost nonexistent (due to a low user base), Netcom offers much more in terms of UNIX utilities and side benefits. CineNet does offer basic programs such as tin for Usenet news, elm and pine for email, and lynx and gopher, but is lacking in many others, such as trn for Usenet news or ncftp for file transfers.

CineNet's Internet connection, at 56Kbit, is solid, but slower than Netcom's. CineNet support appears to be upgrading the system on a regular basis, but it may be some time before CineNet's offerings come close to Netcom's, or even KAIWAN's.

Still, CineNet is a good option for the average user who doesn't need to crunch a lot of UNIX programs on the system. The Cinenav menu, which allows you to navigate the system and through parts of the Internet, is sparse but functional. Support is available and personalized, and the price really can't be beat.

## The WELL

Many people in the Los Angeles area will be happy to hear that the WELL, the celebrated San Francisco conferencing system, now has a local number through a connection with Mednet. For $1/hour above the WELL's regular $2/hour rate, Angelenos can now enjoy all the benefits of the WELL's famed discussions plus full Internet access.

The Internet access, which includes email, Usenet, telnet, and all the goodies, may not be the most economical. It would be useful for those primarily interested in exploring the WELL itself, with the option of having a gateway to the outer world. Most WELLbeings, as WELL users are known, seem to prefer the sanctuary of their online community to traversing the Internet anyway.

For those interested in learning UNIX and the Internet, but intimidated by the cold distance of a service that simply offers Usenet groups, the WELL does offer conferences, such as the Internet conference, which provide easy-to-use menus and experts to help you on your journey. Be warned though: the WELL's conferences are run on PicoSpan, a text-based conferencing program that is not much easier to use than basic UNIX. Many people consider the software to be a Darwinian "Survival of the Fittest" test; allowing only those dexterous enough to figure out the arcane commands to participate in the WELL's fascinating conferences.

## Local Options

For those of you who don't care about proving yourself through text-based tests of computer strength, two new services in the Los Angeles area provide inexpensive SLIP/PPP access complete with the graphical software that allows you to access the Internet with a point and click.

**Netcom's main in-house newsgroup, netcom.general, is almost worth the price of admission for the flame wars that go on daily.**

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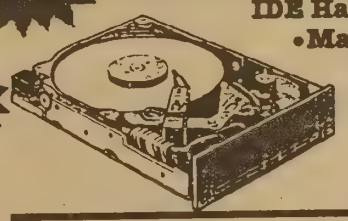

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Just opened this spring, the Valley-based Lightside offers inexpensive SLIP/PPP access. (The service does not provide a UNIX-based dial-up account.) There is no sign-up fee and Lightside provides the necessary software to use the system.

Although on an entirely different pricing scheme, EarthLink, which just opened, also provides inexpensive SLIP/PPP access. They too provide the software, included in the $50 setup fee. Right now they have one 213 modem number but plan to expand soon.

EarthLink is providing some competition to Caprica, another small service based in the 213 area. Unlike EarthLink, though, Caprica offers a UNIX dial-up account for the same price as their SLIP/PPP accounts. While the UNIX account isn't too economical (with a $2/hour charge) the low base rate might be worthwhile to folks who don't check their email too often. Software is not included with the inexpensive SLIP/PPP access offered.

## Commercial Online Services

If none of these local options for dial-ups or SLIP/PPP please you, you might want to try the big guns. CERFNet is local to Southern California but is really priced more for businesses and fairly expensive as a personal Internet provider. PSILink is another huge national company that offers overpriced personal accounts.

Delphi is the one major online service that offers full Internet access. In April the service started allowing free, unlimited temporary file storage on the system, making the service much more competitive with UNIX providers.

Still, it's no bargain, unless you are in an area of Los Angeles or Orange County not locally covered by other Internet providers. Because of Delphi's SprintNet link, almost anyone can find a local number for Delphi, whereas services like Netcom only cover certain areas and many users are forced to pay high long-distance charges on top of the regular fee. Delphi does offer other services besides Internet, which may make it worthwhile to folks who just want to dabble.

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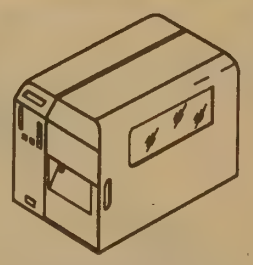

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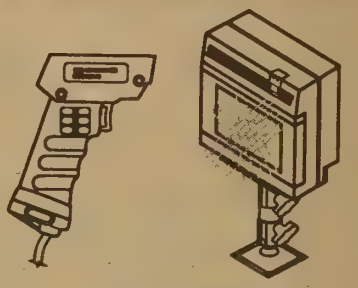

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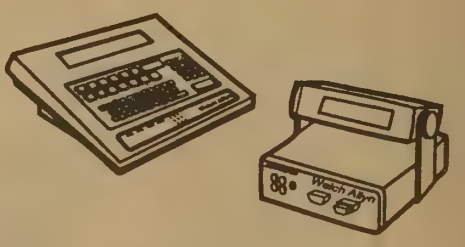

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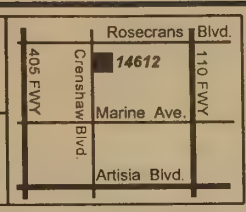


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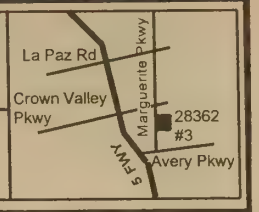


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| VLB SVGA 1 MB 1024X768 | $ 75.00 |
| VLB SVGA S3 Chip1024X768 | $ 85.00 |
| **Diamond Stealth / Orchid** | |
| PCI / VLB Diamond Stealth 32bit w/2MB DRam | $139.00 |
| PCI /VLB Diamond Stealth 64bit w/2MB DRam/VRam | $185.00/ $295.00 |
| Diamond Viper SE VLB w/2MB VRam | $299.00 |
| VLB / PCI Kelvin64 Orchid w/1MB | $139.00 |
| **ATI GRAPHIC** | |
| VLB / PCI Pro Turbo w/2mb VRam | $299.00 |
| VLB / PCI Pro Turbo w/4mb VRam | $499.00 |
| VLB / PCI Graphics Ultra Pro w/2mb VRam | $253.00 |

## Multimedia kit Super Deal

Double speed CD Rom Sony/Mitsumi, 16 bit MCD Stereo Sound card, joystick 4+4 watts Speakers, 3 Games in disk, 1CD titles.

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## Multimedia kit SCSI Double Speed

Multimedia Up Grade kit by MITAC, SCSI Double Speed Sanyo CD, 16 Bit Pro Audio Spectrum SCSI Stereo sound Card By Media Vision, Speaker Set 4+4, Encyclopedia, 4 more CD title.

**$259.00**

## CD ROM Drive

| | |
|---|---|
| Sony/ Mitsumi double speed | $129.00 |
| NEC 510 Trip-speed SCSI | $299.00 |
| NEC Double speed SCSI | $199.00 |
| Toshiba 3401B 200m/s doublespeed | $279.00 |

## Sound Card

| | |
|---|---|
| Sound Blaster 16 MCD | $109.00 |
| Sound Blaster 16 SCSI | $149.00 |
| Sound Blaster 32 BIT | $269.00 |
| 16 Bit MultiCD sound card by Opti chip | $ 89.00 |
| Wave BLaster 32 bit | $169.00 |

## Speakers

| | |
|---|---|
| SPEAKER NORMAL | $ 12.00 |
| SPEAKER W / 4 WATTS | $ 22.00 |
| SPEAKER W / 35 WATTS | $ 55.00 |
| SPEAKER W / 40 WATTS | $120.00 |

***CD TITLES AVAILABLE***

## PRINTERS

### HP Inkjet/Laser/Scanner

| | |
|---|---|
| HP520 | $ 289.00 |
| HP560C | $ 549.00 |
| HP4P | $ 920.00 |
| HP4Plus | $1355.00 |
| HP4 | $1265.00 |
| HP4L | $ 630.00 |
| HP1200C | $1365.00 |
| Sc IIP | $ 470.00 |
| Sc IICX | $ 909.00 |

### CANON BUBLEJET

| | |
|---|---|
| CANON BJC-600 | $499.00 |
| CANON BJ10SX | $255.00 |
| CANON BJ200e | $264.00 |
| CANON BJ230 wide | $399.00 |

### OKIDATA

| | |
|---|---|
| OL400 LED | $ 419.00 |
| OL400e LED | $ 519.00 |
| OL410e LED | $ 634.00 |
| OL810 LED | $ 919.00 |

### EPSON DOT MATRIX

| | |
|---|---|
| Action1100 | $475.00 |
| STYLUS-720color | $558.00 |
| STYLUS-800 | $218.00 |
| LX300 | $176.00 |
| FX870 | $278.00 |
| FX1170 | $359.00 |
| LQ570+ | $254.00 |
| LQ870 | $454.00 |
| LQ1070+ | $376.00 |
| Action1500 | $599.00 |

### PANASONIC DOT MATRIX

| | |
|---|---|
| KX-P1150 | $129.00 |
| KX-P2023 | $199.00 |
| KX-P2135 color. *$50 rebate included* | $250.00 |

*Laser Printer*

| | |
|---|---|
| KX-P4410 | $464.00 |
| KX-P4400 | $445.00 |
| KX-P5400 *$50 rebate included* | $764.00 |

## MOTHER BOARDS W/CPU & CACHE

### 386-SX/DX

| | |
|---|---|
| **ISA 386-SX40** W/CPU | $ 59.00 |
| **ISA 386-DX40** 128KCache w/CPU. | $ 95.00 |
| **VLB 386-DX40** 128KCache w/CPU. | $129.00 |

### 486-SLC & DLC

| | |
|---|---|
| **ISA 486-33SLC** TI CPU OK cache | $ 93.00 |
| **VLB 486-DLC 40 MHZ** w/CPU & w/128K Cache & Math CO | $ 189.00 |
| **ISA 486-DLC 40MHZ** W/CPU W/128K CACHE & Math Co | $ 159.00 |

### IBM SLC

| | |
|---|---|
| **VLB IBM 486-SLC 2 66mhz** 64K Cache w/ CPU Math CO | $ 188.00 |
| **ISA IBM 486-SLC 2 66MHZ** 64K Cache w/ CPU Math CO | $ 164.00 |
| **VLB IBM 486-SLC 3 75mhz** 256K Cache w/ CPU Math CO VLB IDE I/O BUILT IN , ZIP SOCKET | $ 279.00 |

### 486-DX/SX

**SPECIAL**

**VLB 486-DX2 66 MHZ INTEL** CPU, 3VLB, 256K Cache, 64 MB Ram, 30 pin&72 pin AMI,GREEN, Zip Socket **$ 299.00**

| | |
|---|---|
| **VLB/PCI 486-DX2 66 INTEL** CPU 256K Cache | $ 369.00 |
| **VLB 486-DX4 100 MHZ INTEL** CPU, 3VLB, 256K Cache,30 pin&72 pin, Zip Socket | $ 639.00 |
| **VLB 486-DX33 MHZ W/Intel CPU,** 256K Cache,zip socket | $ 259.00 |
| **VLB 486-DX40 MHZ W/CPU,** 256K Cache,zip socket | $ 269.00 |
| **VLB 486-SX25 MHZ INTEL** CPU,3VLB, OK Cache | $ 155.00 |
| **VLB 486-SX33 MHZ INTEL** CPU,3VLB, OK Cache | $ 172.00 |
| **486-DX66/50/33/40/25SX/DX VLB&ISA** 256K Cache, ZIP SOCKET, Green, Mother Board ONLY | $ 90.00 |
| **486-DX4 100/66 mhz VLB/ISA** 256k Cache,zif Socket,Green, MB only | $ 99.00 |

### 586 DX PENTIUM — W/O CPU

| | |
|---|---|
| **586-66 MHZ** ,4-PCI & ISA, 256k cache, upgrade to 512K, 72pin 4 slot | $ 218.00 |
| **586-66 MHZ VLB & ISA** 256K Cache upgrade to 512k,72 pin | $ 199.00 |
| **586-66 MHZ VLB & PCI & ISA** SLOTS 256K Cache upgrade to 512k,72 pin | $ 249.00 |
| **586-90 MHZ 2 VESA, 3 PCI, 2 ISA** SLOTS 256K Cache UPGRADE TO 512K, 72 PIN 4 SLOTS | $ 255.00 |

## I/O CARD

| | |
|---|---|
| 16bit AT I/O 2S,1P,1G | $ 13.00 |
| 16bit AT I/O & IDE 2S,1P,1G,2HDD,2FDD. | $ 15.00 |
| VLB AT I/O & IDE 2S,1P,1G,2HDD,2FDD.. | $ 20.80 |
| VLB AT I/O & IDE 2S,1P,1G,4HDD,2FDD... | $ 29.00 |
| VLB AT I/O&IDE4+4SUPPORT2.88HI/SPD | $ 55.00 |
| VLB 6360 Adaptec SCSI card | $ 99.00 |
| Intel PCI IDE card w/cable | $ 39.00 |
| PCI IDE card w/cable | $ 29.00 |
| SCSI to parallel port adapter | $ 99.00 |
| " " " w/cache | $169.00 |
| SCSI2 ISA Controller Card | $ 65.00 |
| VLB IDE/FDD Caching Card (DC680T) | $139.00 |
| VLB SCSI/FDD Caching Card (800) | $385.00 |

## FAX / MODEM

| | |
|---|---|
| Fax/Modem 9600/2400 send/rec | $ 29.00 |
| Fax/Modem 14,400 send/rec | $ 68.00 |
| Fax/Modem 28,800 send/rec | $139.00 |
| Fax/Modem/Voice Mail 14,400 (forward to pager) | $129.00 |
| Fax/Modem/Voice Mail 9600/2400 | $ 69.00 |
| External 14,400 Fax/Modem | $139.00 |
| U.S Robotics 14,400 Fax/Modem | $119.00 |
| Practical Peripherals 14,400 Fax/ Modem | $129.00 |
| PCMCIA Fax/Modem (IC-FM2828) 28.8/28.8 ROCKWELL CHIP (FOR NOTEBOOK) | $165.00 |

## HARD DRIVES

| | |
|---|---|
| 170MB IDE | $159.00 |
| 210MB IDE | $165.00 |
| 290MB IDE | $179.00 |
| 345MB IDE | $195.00 |
| 405MB IDE | $199.00 |
| 420MB IDE | $205.00 |
| 540MB IDE | $249.00 |
| 540MB SCSI | $289.00 |
| 1.0GB IDE W.D. | $525.00 |
| 1.0GB SCSI | $599.00 |
| 2.0GB SCSI | $1,139.00 |

## SIMMS MEMORY

| | |
|---|---|
| 256 K SIMMS 80ns | $ 11.00 |
| 1Meg SIMMS 70ns 1X3 | $ 38.00 |
| 1Meg SIMMS 70ns 1X2 | $ 35.00 |
| 4Meg SIMMS 70ns 1X9 | $149.00 |
| 1Meg SIMMS70ns 72pin | $ 52.00 |
| 2Meg SIMMS70ns 72pin | $ 89.00 |
| 4Meg SIMMS70ns 72pin | $149.00 |
| 8Meg SIMMS70ns 72pin | $279.00 |
| I Meg SIPP 30pin 70ns | $ 39.00 |
| 16 Meg SIMMS 70 ns | $499.00 |

SIMMS Prices subject to change without notice. Please call for current prices.

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PENTIUM 66MHz PCI ..... $1669
VLB 486DX2/66MHz ..... $1149
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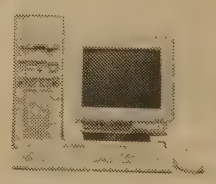

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540MB IDE HDD ..... $279
420MB IDE HDD ..... $199
4862-66MHz w/CPU ..... $199
4862-50MHz w/CPU ..... $109
CD ROM Double Spd. w/Ctrl ..... $135

## MOTHERBOARDS

PCI Pentium 90MHz & CPU ..... $1099
PCI Pentium 66MHz & CPU ..... $899
VLB Pentium 66MHz w/512K & CPU ..... $879
PCI Pentium 60MHz w/256K & CPU ..... $799
PCI-VLB 486DX2-66MHz w/256K & CPU ..... $399
VESA L/B 486DX2-66MHz w/256K & CPU ..... $319
VESA L/B 486DX-50MHz w/256K & CPU ..... $355
VESA L/B 486DX2-50MHz w/256K & CPU ..... $265
VESA L/B 486DX-40MHz w/256K & CPU ..... $249
VESA L/B 486DX-33MHz w/256K & CPU ..... $235
ISA 4862-66MHz & CPU ..... $199
486DLC-40MHz w/Math Co & CPU ..... $157
486SX-25MHz & CPU ..... $159
ISA 386DX-40MHz & CPU ..... $109

## HARD & FLOPPY DRIVES

1.2FDD ..... $52
1.44FDD ..... $44
170MB IDE HDD ..... $165
210MB IDE HDD ..... $179
245MB IDE HDD ..... $195
270MB IDE HDD ..... $205
340MB IDE HDD ..... $215
420MB IDE HDD ..... $229
540MB IDE HDD ..... $289
290MB SCSI HDD ..... $245
540MB SCSI HDD ..... $359
1.0GB SCSI HDD ..... $669
1.7GB SCSI HDD ..... $975

## VIDEO CARDS

MGP ..... $15
SVGA 256K 16-Bit ..... $32
SVGA 1MB 16-Bit ..... $62
SVGA 1MB Windows Accelerator Card ..... $67
Diamond Stealth 24-Bit 1MB VLB ..... $157
Orchid Fahrenheit VESA Local Bus 32-Bit ..... $159
Diamond Viper VLB 2MB VRAM SVGA ..... $349
Diamond Speedstar Pro VLB 1MB SVGA ..... $115
Diamond Stealth PCI 1MB ..... $155
Orchid Celsius VLB 1MB 1280x768 ..... $169
VESA Local Bus 1MB SVGA ..... $89

**CALL FOR ADDITIONAL OPTIONS!**

## CONTROLLERS

IDE w/ I/O (2S/1P/1G) ..... $23
IDE 2FD/2HDD ..... $18
I/O (2S/1P/1G) ..... $17
VESA Local Bus IDE w/I/O Controller ..... $27
Adaptec 1522 SCSI II Compatible Card Only ..... $99
Adaptec 1542CK SCSI w/Bus Master & Kit ..... $279
Adaptec 2742K EISA 32-Bit SCSI w/Kit ..... $395
Ultrastor 15C IDE Caching Controller exp. To 8MB ..... $195
Ultrastor 14F SCSI Controller 32K Cache ..... $210
VLB SCSI 2/IDE I/O Ctrl ..... $149

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## MONITORS

14" SVGA 1024x768, .39dp ..... $199
14" SVGA 1024x768, .28dp ..... $207
14" SVGA NI 1024x768, .28dp ..... $239
15" SVGA NI 1024x768, .28dp ..... $329
MAG 15" SVGA 1280x1024, .28dp ..... $475
MAG 17" SVGA 1280x1024, .28dp ..... $785
NEC 4FG 15" SVGA 1280x1024, .28dp ..... $769
NEC 5FG 17" SVGA 1280x1024, .28dp ..... $1330
Sony 15SF 15" SVGA .25 Trinitron ..... $455
Mono 14" Monitor ..... $95
Mono 14" VGA Monitor ..... $105

## KEYBOARDS

101 Keyboard ..... $25
Focus 2001 ..... $37
Focus 9000 ..... $57
Keytronic KT2000 ..... $32
Fujitsu 4700 ..... $41
Maxi Switch 101 ..... $27

## CPU's

Intel Pentium 90MHz CPU ..... $729
Intel Pentium 66MHz CPU ..... $599
Intel Pentium 60MHz CPU ..... $499
Intel 486DX2-66MHz CPU ..... $219
AMD 486DX2-66MHz CPU ..... $199

**CALL FOR ADDITIONAL CPU & MEMORY PRICING!**

## MICE

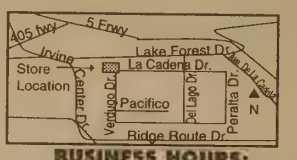
Microsoft Compatible 3-Button ..... $17
Microsoft Serial Mouse (NEW!) ..... $39
Microsoft Bus Mouse ..... $76
Microsoft PS2 Mouse ..... $74
Trackball Mouse ..... $33
Black Mouse ..... $24

## MISCELLANEOUS

Colorado 120MB ..... $112
Colorado 250MB ..... $175
Archive 250MB w/ Tape ..... $159
Sound Blaster Pro ..... $135
Pro Audio Spectrum 16 Studio SCSI ..... $129
CD-ROM Double Speed w/ Controller ..... $135
CD-ROM SCSI NEC ..... $159

## CHASSIS

Desktop AT w/200W ..... $49
Mini Tower w/200W ..... $44
Mid Tower w/230W ..... $65
Full Tower w/230W ..... $79
Black Color Model Available ..... CALL

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| 1x3-60 $39 | 1x3-70 $34/OEM | 1x3-80 $34 |
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| 4x9-60 $142 | 4x9-70 Logic $127 | 4x9-80 $132 |
| 4x8-70 $132 | 1x8-70 $39 | 1x8-80 $35 |
| | 1x9-100 $31 | |

## 72 PIN MEMORY

| | | |
|---|---|---|
| 1x36-70 $155 | 2x36-70 $302 | 4x36-70 $545 |
| 1x32-70 $135 | 2x32-70 $275 | 4x32-70 $485 |
| 1x36-60 $165 | 2x36-60 $319 | 4x36-60 $565 |
| 1x32-60 $145 | 2x32-60 $295 | 4x32-60 $495 |

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## DESKTOP MEMORY

| | 4MB | 8MB | 16MB |
|---|---|---|---|
| ***IBM:*** | | | |
| PS/VALUEPOINT 486(ALL) | 169 | 339 | 639 |
| 433SX/SI, 433DX/SI | | CALL | |
| PREMIER PS/2 76, 77, 56 | | CALL | |
| 57 ULTIMEDIA M77 | | CALL | |
| PS/1 WILLOW(ALL) | | CALL | |
| PS/1 CONSULTANT | | CALL | |
| PS/1 ESSENTIAL | | CALL | |
| PS/1 ADVISOR | | CALL | |
| PS/2 50, 60, 70, 95XP | | CALL | |
| ***COMPAQ:*** | | | |
| PROLINEA MT 4/33 4/66, 4/50, 4/66 | | CALL | |
| PROSIGNIA 486/33 486DX2/66 | | CALL | |
| PRESARIO 800L 600, 400 SERIES | | CALL | |
| PROLIANT (ALL) | | CALL | |
| DESKPRO (ALL) | | CALL | |
| ***AST:*** | | | |
| PREMIA 4/33, 336 50d, 66d | | CALL | |
| ADVANTAGE I PLUS 486 SERIES | | CALL | |
| ADVANTAGE I PRO 486/DX33, SX25 | | CALL | |
| BRAVO 486LP, LCII, LC SERIES | | CALL | |
| PREMIUM II-SX, SX16, SX20 | | CALL | |
| PREMIUM 486 (ALL) | | CALL | |
| ***NEC:*** | | | |
| POWERMATE EXPRESS 433T, 466T, 662LT, 433ST, 466ST | | CALL | |
| POWERMATE EXPRESS 486/25E, 486/25e, 486/50TE, 486/33TE, 486DX2/66e | | CALL | |
| POWERMATE 286, 386, 486 | | CALL | |
| ***APPLE:*** | | | |
| QUADRA 700, 900, 950 | | CALL | |
| QUADRA 800, 840AV | | CALL | |
| QUADRA 605, 610, 650 | | CALL | |
| CENTRIS 610, 650, 660 AV | | CALL | |
| PERFORMA 450, 460, 466, 467, 475, 550, 600 | | CALL | |
| ***DELL:*** | | | |
| PRECISION 486 | | CALL | |
| ***ZENITH:*** | | | |
| Z486/25E | | CALL | |
| Z-SERVER (ALL) | | CALL | |
| Z-SELECT100 | | CALL | |

## PRINTER MEMORY

| | 2MB | 4MB | 8MB |
|---|---|---|---|
| ***HEWLETT PACKARD:*** | | | |
| HP 4, 4M | 79 | 149 | 309 |
| HP 4P, 4MP | 79 | 145 | 279 |
| HP 4L, ML (1MG ONLY) $55 | | | |
| HP 550, C, 560, C (256K ONLY) $45 | | | |
| HP II/IID | 105 | 159 | |
| HP III, IIIP | 105 | 159 | |
| ***OKIDATA:*** | | | |
| 400 | 105 | | |
| 400E/4 10E | 119 | 209 | |
| ***PANASONIC:*** | | | |
| KX 4410/4430 | 105 | 169 | |
| KX 4420/44501 | 139 | 219 | |
| KX 4400/5400 | | CALL | |
| KX 4440/5410 | | CALL | |
| ***EPSON ACTION LASER:*** | | | |
| 1500, 1000 | 129 | | |
| ***APPLE:*** | | | |
| PRO 810 | | 219 | 449 |
| ***CYRIX FASTMATH*** | | | |
| MATH CO-PROCESSOR | | | |
| CYRIX DX-40 | | 49 | |
| CYRIX SX-33 | | 45 | |

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## NOTEBOOK MEMORY

| | 4MB | 8MB | 16MB |
|---|---|---|---|
| ***TOSHIBA:*** | | | |
| T1950/1900/T1900CT | 209 | 399 | 709 |
| T4700 (NEW), T4800 (NEW) | 209 | 399 | 709 |
| T1850/C, 1800, 2200SX | 195 | 339 | |
| T2000SXE | 195 | 339 | |
| **PROTEGE 3400** | 195 | 369 | 639 |
| ***IBM:*** | | | |
| ***Special!* THINKPAD 755c, 32 Meg** | 1495 | | |
| THINKPAD 755/c, | 205 | 369 | 750 |
| THINKPAD 750c, 300 | 205 | 349 | 699 |
| THINKPAD 700, 720, CL57SX | 195 | 349 | |
| THINKPAD 500 | 209 | 359 | |
| THINKPAD 350/C | 195 | 339 | 579 |
| PS/NOTE 2618 | 195 | 339 | 585 |
| PS/NOTE 182, N82 | 209 | 349 | |
| ***COMPAQ:*** | | | |
| CONCERTO 426, 433 | 205 | 379 | 689 |
| CONTURA 4/25, C, CX | 205 | 349 | 679 |
| LTELITE 4/25, C | 235 | 379 | |
| **COMPAQ AERO** | 205 | 379 | CALL |
| ***NEC:*** | | | |
| **ULTRALITE VERSA V-SERIES** | 195 | 379 | 779 |
| ULTRALITE III, SL, 25C | 205 | 369 | |
| **ULTRALITE VERSA S-SERIES** | 239 | 429 | 905 |
| ***ZENITH:*** | | | |
| Z-STAR 433VL | | 379 | |
| Z-NOTE | 205 | 379 | 679 |
| Z-LITE 425LSUB | | CALL | |
| ***AST:*** | | | |
| **ASENTIA 900N** | 205 | | 809 |
| POWEREXEC 486SL/33 | 205 | | 699 |
| BRAVO NB | 205 | | 699 |
| BRAVO LC, MT | | CALL | |
| ***T.I.*** | | | |
| TRAVELMATE TI 4000E | 205 | | 895 |
| TRAVELMATE TI 4000M (NEW) | | CALL | |
| TRAVELMATE TI3000 (2MG) | 99 | | |
| TRAVELMATE TI2000 (1MG) | 79 | | |
| ***APPLE:*** | | | |
| BLACKBIRD 520,/C, 540,/C | 229 | 409 | 779 |
| BLACKBIRD POWER PC | 155 | 299 | 529 |
| POWERBOOK 140, 145B, 170, 180, 160, 165, 180C, 165C | 209 | CALL | |
| ***ACER:*** | | | |
| ACERNOTE 750, 735, 769 | 219 | 409 | 699 |
| ***TWINHEAD:*** | | | |
| SLIMNOTE E 486DX | 209 | | 749 |
| ***PACKARD BELL:*** | | | |
| STATESMAN | | 379 | |
| ***AT&T:*** | | | |
| AT&T SAFARI | 209 | 369 | 789 |

get online, there's a greater diversity of needs; many folks are looking for full Internet access, but many others simply need email or news. Many local BBSes offer a combination of email, Usenet, files, and local conferences. Here's a look at some inexpensive but fairly reliable options for the budget Internet email shopper:

One highly recommended service is the Valley College BBS, which provides Internet email, Usenet and Fidonet discussions, databases, and more for a minimum donation of $12.

The long-awaited Los Angeles Free-Net is now open, and offering accounts for only $10 per year. The Free-Net only has one node, in the 818 area code, and lines are busy, so it is not the best option for reading tons of news or email. The Free-Net was created as an online community center for Angelenos; and it offers a full complement of informative areas, including government information, special gophers, and local Los Angeles community services. Members are encouraged to propose new offerings to the Free-Net. A bulletin board area has been set up for discussion groups, which include such offerings as the "Poets' Forum," "Boomer's Board," and a forum for Rotary International.

Unfortunately, the LA Free-Net is set up with a hard-to-use menu system, and it is difficult to find items easily or navigate the system quickly. Choices of editors, email programs, and news programs are very limited (pine for email is not even installed), and users have a limit of sixty minutes on one connection.

Also, you won't be able to use the Free-Net for interactive telnet sessions. The service had offered telnet, but it was abused when members used the Free-Net as a toll-free way to connect to their main service provider. However, the service does offer a menu-based telnet to certain areas on the menu, such as other Free-Nets.

Still, the LA Free-Net will certainly become a major force in the LA online world soon; it's a great place to get involved in the community, and heck, it's OK for some email too.

For those who simply must have a graphical interface, Digital Popcorn is a great place to get email and read news. Digital Popcorn is a Los Angeles-based BBS that runs on First Class BBS software. First Class isn't the most versatile software around but it provides a Macintosh-like point-and-click interface, complete with folders and lots of icons. For $6.95/month you can get LA fare, Internet email, more than one hundred Usenet newsgroups, ClariNet newswires, USA TODAY, and a connection to OneNet, the network of First Class BBSes.

While Digital Popcorn could be organized more efficiently (folders open onto folders which then open onto the first folder in a very recursive setup), it's nice to have a system that is dedicated to Los Angeles news and information. The more than forty thousand files available for downloading on the system should please any BBS addict.

Digital Popcorn also offers community access accounts for free. You get twenty free minutes a day but no Internet email—still not a bad bargain.

As you can see, you have a lot of choices for Internet access. The list above is far from complete; new services are formed constantly. There might be a small BBS near you providing just what you need. Don't be afraid that you'll make the wrong decision though; one nice thing about having so many choices is that you can always try another one. ■

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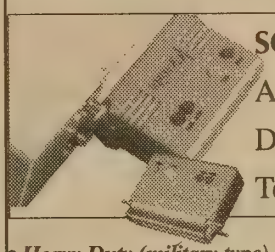

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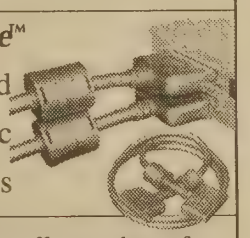

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| (213)266-0822 | | | |
| rate-info@caprica.com | | | |
| Dial-up | $12.50/mo. with 5 free hrs., then $2/hr. (over 25 hrs., $1.50/hr.) | 5MB | $25 |
| SLIP/PPP | same | N/A | $25 |
| **CERFNet** | | | |
| 1-800-876-CERF | | | |
| sales@cerf.net | | | |
| Dial-up | $20/mo. and $5/hr. weekdays, $3/hr. weekends | 1MB | $50 |
| SLIP/PPP | same | | |
| **CineNet** | | | |
| (310)399-4421 | | | |
| info@cinenet.net | | | |
| Dial-up | $14/mo. | 5MB | none |
| SLIP/PPP | coming soon | | |
| **CRL** | | | |
| (415)837-5300 | | | |
| support@crl.com | | | |
| Dial-up | $17.50/mo. | 5MB | $19.50 |
| SLIP/PPP | $19.50/mo. and $2.50/hr. | N/A | $50 |
| **Delphi** | | | |
| 1-800-695-4005 | | | |
| info@delphi.com | | | |
| Menu, 10/4 plan* | $10/mo. and $4/hr. | unlimited temp. | none |
| 20/20 plan* | $20/mo. with 20 free hours, then $1.80/hr. | same | $19 fee if signed up after first month |
| *Internet access costs $3/mo. extra for both plans; prime-time SprintNet access also extra. | | | |
| **Digital Popcorn** | | | |
| (818)398-8018 | | | |
| administrator@pop.com | | | |
| Community account (GUI, no Internet email) | Free for 20 minutes of access per day | N/A | none |
| Full account (GUI, Internet email, Usenet) | $6.95 for 2 hrs./day access | N/A | $4.50 |
| **EarthLink** | | | |
| (213)644-9500 | | | |
| info@earthlink.net | | | |
| SLIP/PPP | $10/mo. and $2/hr. OR $30/mo. with 30 free hrs. then $2/hr. | N/A | $50 |

| ACCOUNT TYPE | COST | DISK SPACE | SETUP FEE |
|---|---|---|---|
| **KAIWAN** | | | |
| (714)638-2139 | | | |
| info@kaiwan.com | | | |
| Dial-up | $14–20/mo. | 1 to 5MB | $15 |
| SLIP/PPP (includes dial-up account) | $20/mo. and $2/hr. | 5MB | $25 |
| In selected areas only | | | |
| **Lightside** | | | |
| (818)858-9261 | | | |
| info@lightside.com | | | |
| SLIP/PPP | $29.95/mo. with 30 free hrs. then $2/hr. OR $17.50/mo. and $2/hr. | N/A | none |
| **LA Free-Net** | | | |
| (818)954-0080 | | | |
| Menu system | $10/year | 1MB temporary | none |
| **Los Angeles Valley College BBS** | | | |
| (818)985-7145 | | | |
| info@support.com | | | |
| Menu system | suggested $15/year donation | 3MB | none |
| | | downloads/day | |
| **Netcom** | | | |
| 1-800-353-6600 | | | |
| support@netcom.com | | | |
| Dial-up | $17.50/mo. | 5MB | $20 |
| NetCruiser (GUI) | $19.95/mo. with 40 free hours; then $2/hr. for prime-time usage (prime time is 9 am to midnight) | N/A | $25 |
| **PSINet** | | | |
| 1-800-82PSI82 | | | |
| info@psi.com | | | |
| PSILink Lite* (Special software, email only) | $9/mo. 1200–2400 baud<br>$19/mo. 9600 baud<br>$29/mo. 14,400bps | unlimited email | $19 |
| PSILink Basic* (Special software, email, news, ftp) | $19/mo. 1200–2400 baud<br>$29/mo. 9600 baud<br>$39/mo. 14,400bps | 50MB of Usenet & 50MB of ftp per month; unlimited email | $19 |
| *Software not available for all platforms; some local phone numbers carry an extra charge of $6/hr. prime time and $2.50/hr. non-prime time. | | | |
| **The WELL** | | | |
| (415)332-4335 | | | |
| info@well.com | | | |
| Dial-up (PicoSpan) | $15/mo. and $2/hr. | 512K | $25 for mail billing only |

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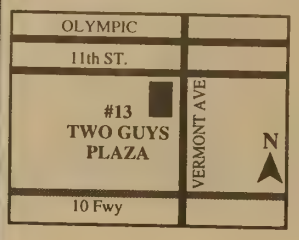


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| Arcus Mono 14" Monochrome Monitor | $95 |
| MGC 1402N, 14" 1024x768; NI; .28mm | $214 |
| MGC 1506E, 15" 1280x1024;NI; 28mm | $295 |
| MAG MX17F, 17" 1280x1024; NI; .26mm | $825 |
| NEC 3FGe, 15" 1024x768; NI; 28mm | $575 |
| NEC 4FGe, 15" 1024x768; NI; .28mm | $635 |

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| 486SX-33 Intel (AMI) 256K VESA Local Bus | $175 |
| 486DX-33 Intel (AMI) 256K VESA Local Bus | $295 |
| 486DX-33 Cyrix (AMI) 256K VESA Local Bus | $230 |
| 486DX-40 AMD (AMI) 256K VESA Local Bus | $235 |
| 486DX2-66 Intel (AMI) 256K VESA Local Bus | $325 |
| 486DX2-66 AMD (AMI) 256K VESA Local Bus | $295 |
| Pentium 66MHz, Intel, 256K PCI Bus | $795 |
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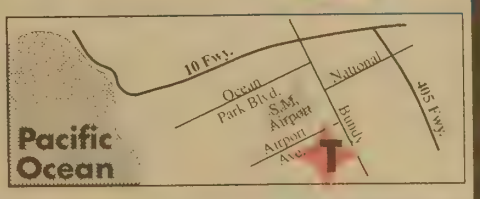


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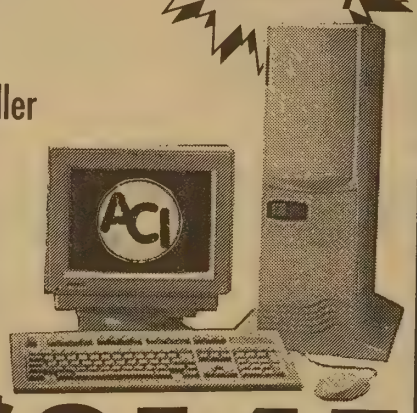


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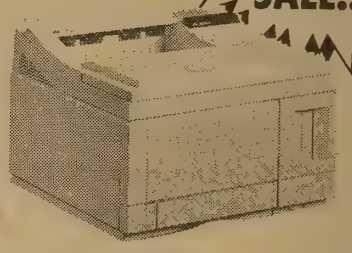

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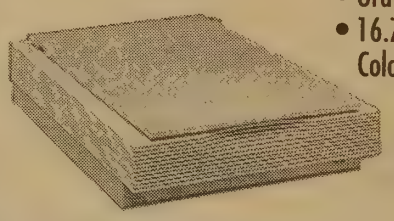

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intel inside

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- Enhanced 101 Keyboard
- Hi Resolution Mouse
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- 16 Bit Sound Card
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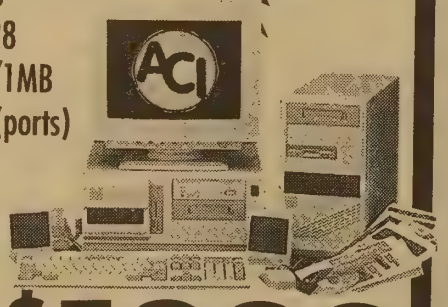


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| HP LaserJet 4M Plus printer | $1825 |
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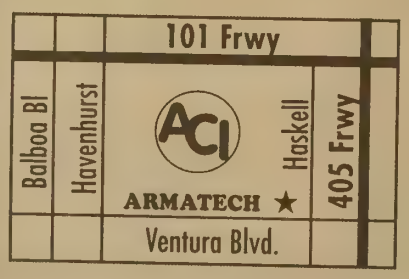


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| TRACKBALL | $20 |
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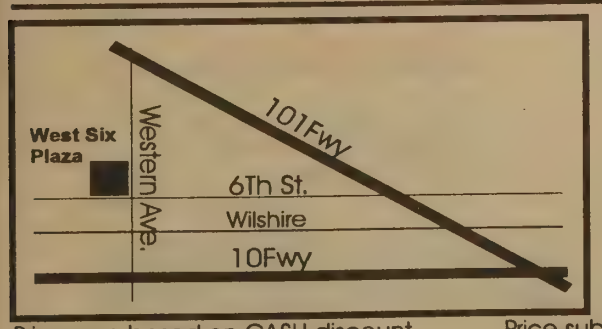


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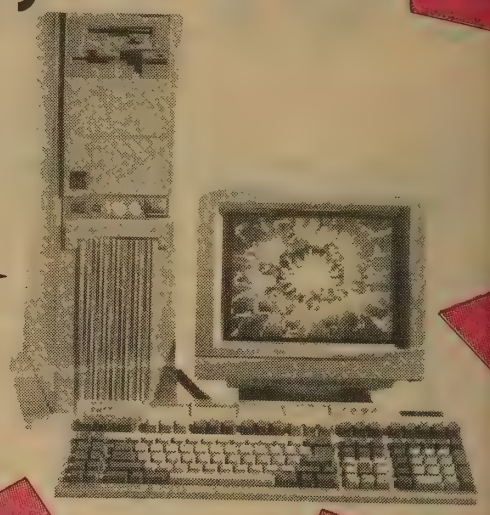

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- 3 VESA Local Bus Slot
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- Built-In Math Coprocessor
- Hi-Res Mouse
- 8K Cache Int.
- 2S/1P/1G
- 1.44MB FD
- 213MB HD 13ms W/128K Cache
- 32 Bit VESA Local BusFD/HD Controller
- 101 Keyboard(Japan)
- .28 Super VGA Color Monitor
- 32 Bit VESA Local Bus Super VGA Card W/1MB (Windows Accelerator, 1280x1024, 16.7M Color)
- Clock/Calendar w/B.B.U.
- Operation Manual
- Digital Mid-Size Tower Case
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- 8K Cache Int.
- 2 Serial, 1P, 1G
- Hi-Res Mouse
- 1.44MB FD
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- 101 Keyboard (Japan)
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- 32 Bit VESA Local Bus SVGA Card w/1MB
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- 101 Keyboard (Japan)
- 32 Bit VESA Local BusFD/HD Controller
- .28 N/I VESA GREEN SVGA Color Monitor
- 32 Bit VESA Local Bus Super VGA Card W/1MB
- Clock/Calendar w/B.B.U.
- Operation Manual
- Digital Full Tower Case
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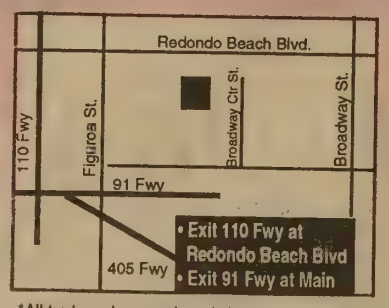


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True 64-bit Intel Mercury Chipset
256K Cache Memory on Board
8M RAM (Expandable to 128MB)
420MB IDE Hard disk drive
1.44MB Floppy Disk Drive
Power Center - Surge Protector

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PCI Video Accelerator Card w/2M
PCI IDE Card (2S, 1P, 1Game)
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Digital Medium Tower Case w/Power
101 Enhanced Keyboard
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3 PCI Local Bus & 4 ISA Bus
True 64-bit Intel Mercury Chipset
256K Cache Memory on Board
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*Top of 486 CPU*
*15" Flat Screen*

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1.44MB Floppy Disk Drive
Power Center - Surge Protector

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VESA 32bit SVGA Accelerator w/1M
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101 Enhanced Keyboard
MicroSoft New Mouse & Mouse Pad

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256K Cache Memory, AMI Bios
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1.44MB Floppy Disk Drive
CPU Cooling Fan

VESA 32bit I/O & IDE Control Card
VESA 32bit SVGA Accelerator w/1M
2 Serial, 1 Parallel & 1 Game
Digital Mini Tower Case w/Power
NI SVGA 14" Full Screen 0.28
101 Enhanced Keyboard
Hi Resolution Mouse
Mouse Pad

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250MB IDE Hard disk drive
1.44MB Floppy Disk Drive
CPU Cooling Fan

VESA 32bit I/O & IDE Control Card
VESA 32bit SVGA Accelerator w/1M
2 Serial, 1 Parallel & 1 Game
Digital Mini Tower Case w/Power
NI SVGA 14" Full Screen 0.28
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Energy Saving Green Function Board
CPU Cooling Fan
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250MB IDE Hard disk drive
1.44MB Floppy Disk Drive
VESA 32bit I/O & IDE Control Card

VESA 32bit SVGA Accelerator w/1M
Digital Mini Tower Case w/Power
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VESA 32bit I/O & IDE Control Card

VESA 32bit SVGA Accelerator w/1M
2 Serial, 1 Parallel & 1 Game
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14" 0.28 SVGA Monitor
101 Enhanced Keyboard
Hi Resolution Mouse
Mouse Pad

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256K Cache Memory, AMI Bios
4M RAM (Expandable to 64MB)
210MB IDE Hard disk drive
1.44MB Floppy Disk Drive
VESA 32bit I/O & IDE Control Card

VESA 32bit SVGA Accelerator w/1M
2 Serial, 1 Parallel & 1 Game
Digital Mini Tower Case w/Power
14" 0.28 SVGA Monitor
101 Enhanced Keyboard
Hi Resolution Mouse
Mouse Pad

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*Price & Performance*
*Both Satisfied*

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AMI Bios
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2M RAM Installed
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I/O & IDE Control Card

SVGA Card w/256k Memory
2 Serial, 1 Parallel & 1 Game Ports
Digital Mini Tower Case w/Power
14" 0.28 SVGA Monitor
101 Enhanced Keyboard
Hi Resolution Mouse
Mouse Pad

**$ 699**

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**Sound Blaster Original 16 Bit**
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Software-Based Audio Compress
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Fast 486SLC2-50Mhz Processor
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| 16 Bit SVGA Card w/1M | $59 |
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| Network Card 16 Bit | $49 |
| Sound Blaster 16 Bit | $109 |

### Modem

| | |
|---|---|
| 9600/2400 Fax/Modem | $39 |
| 14400 Fax/Modem Interna | $79 |
| 28800 Fax/Modem Interna | $179 |

### Case w/Power

| | |
|---|---|
| Mini Tower Digital | $49 |
| Medium Tower Digital | $69 |
| Big Tower Digital | $99 |
| Desk Top 9 Front LED | $79 |

### Accessories

| | |
|---|---|
| MicroSoft Mouse Serial | $34 |
| MS Compatible Mouse | $9 |
| 14" Glass Screen Filter | $24 |
| CPU Cooling Fan | $9 |
| Surge Protector Pad | $24 |
| MicroPhone Deluxe | $9 |

### CPU & Memory

| | |
|---|---|
| PENTIUM 90MHz | $749 |
| PENTIUM 60MHz | $449 |
| Intel DX4/100MHz | CALL |
| Intel DX2/66MHz | $219 |
| AMD DX2/66MHz | $199 |
| AMD DX2/50MHz | $189 |
| Cyrix DX/33MHz | $129 |
| Intel SX/33MHz | $99 |
| VLB MotherBoard 256K,Green | $99 |
| 1M Simm Module | $39 |
| 4M Simm Module | $156 |

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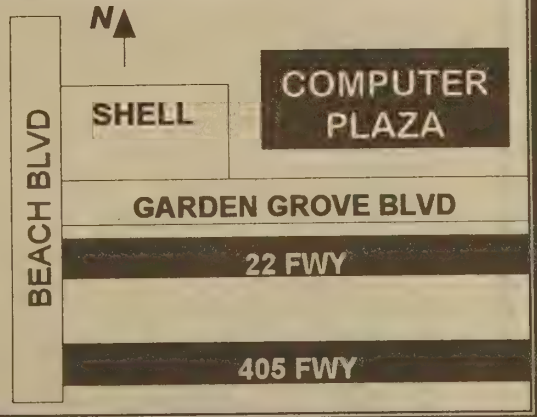

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**Sun. - by appointment**

## PENTIUM PCI LOCAL BUS SCSI MASTER

| | |
|---|---|
| PENTIUM 90MHz | $3,628.00 |
| PENTIUM 66MHz | $3,338.00 |
| PENTIUM 60MHz | $3,238.00 |

- **SUPER MICRO M/B FOR 90MHZ**
- **PENTIUM PCI LOCAL BUS M/B (US MADE)**
- **INTEL PENTIUM CPU w/ZIF SOCKET**
- **4 PCI & 5 ISA BUS**
- 512K CACHE MEMORY
- 16MB RAM (EXP TO 128MB)
- **CPU COOLING FAN & HEATSINK**
- TEAC 1.2 MB & 1.44 MB DUAL FDD
- **1 GIG MICROPOLIS SCSI III 8MS HDD**
- **ADAPTEC 2940W PCI FAST SCSI III BUSMASTER**
- **64 BIT MATROX ULTIMA 2+PCI W/4MB VRAM**
- **HI-SPEED I/O (16550)**
- **DELUXE FULL TOWER CASE**
- **300 WATTS POWER SUPPLY (UL)**
- **MICROSOFT DOS 6.22 & WINDOW 3.11**
- **FOCUS FK 9000 KEYBOARD**
- **MICROSOFT MOUSE**
- MONITOR NOT INCLUDED

## VESA LOCAL BUS SCSI MASTER

| | |
|---|---|
| INTEL 486DX4-100 | CALL |
| INTEL 486DX2-66 | $1,728.00 |
| INTEL 486DX-33 | $1,658.00 |
| AMD 486DX2-66 | $1,698.00 |
| AMD 486DX-40 | $1,668.00 |

- **INTEL PENTIUM OVERDRIVE READY**
- 4MB RAM (EXP TO 128MB)
- 256K CACHE MEMORY
- **CPU COOLING FAN & HEATSINK**
- TEAC 1.2 MB & 1.44 MB FDD
- **540MB SCSI HARD DRIVE**
- **32 BIT VLB ADAPTEC 2842 FAST SCSI II**
- **32 BIT VLB DIAMOND STEALTH 64 w/2MB VRAM (UP TO 4 MB)**
- **15" SVGA MTR 1280 X 1024 .28 D.P. N-I W/DIGITAL CONTROL EPA ENERGY**
- **HI-SPEED I/O (16550)**
- **DELUXE FULL TOWER w/ 2 COOLING FANS**
- **250 WATTS POWER SUPPLY (UL)**
- 101 KEY ENHANCED KEYBOARD
- 3-BUTTON HI-RESOLUTION MOUSE

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| | |
|---|---|
| AMD 486DX2-66 | $938.00 |
| AMD 486DX-40 | $908.00 |
| INTEL 486DX4-100 | CALL |
| INTEL 486DX2-66 | $[illegible] |
| INTEL 486DX-33 | $[illegible] |

- **INTEL PENTIUM OVERDRIVE READY**
- 4MB RAM (EXP TO 80MB) • ZIF SOCKET
- 256K CACHE MEMORY
- 1.44 MB FDD • GREEN MOTHERBOARD
- **CPU COOLING FAN & HEATSINK**
- **420MB IDE HARD DRIVE**
- **32 BIT VLB WINBOND IDE CTLR w/ 2S-P-G**
- **32 BIT VLB GRAPHICS ACCELERATOR w/1 MB**
- **14" SVGA MTR 1024 X 768 .28D.P.**
- **DELUXE MID TOWER CASE w/ 235W POWER SUPPLY (UL)**
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- 3-BUTTON HI-RESOLUTION MOUSE

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*** MULTI-MEDIA KIT-DUAL SPEED CD-ROM 16 BIT SOUND BLASTER COMPATIBLE SOUND CARD**
***ADD $188.00***

*** MULTI-MEDIA KIT-TOSHIBA 3401B 200MS DUAL SPEED CD ROM • SPECTRUM 16 SOUND CARD**
***ADD $368.00***

*** MULTI-MEDIA KIT-NEC 510 TRI-SPEED CD ROM • SPECTRUM 16 SOUND CARD**
***ADD $388.00***

- *** MICROSOFT DOS 6.22** ..... ADD $30
- *** DELUXE FULL TOWER w/2 COOLING FAN** ..... ADD $25

## SPECIAL — PENTIUM PCI LOCAL BUS STANDARD

| | |
|---|---|
| PENTIUM 90MHz | $2,128.00 |
| PENTIUM 66MHz | $1,848.00 |
| PENTIUM 60MHz | $1,738.00 |

- **PENTIUM PCI LOCAL BUS M/B (US MADE)**
- **INTEL PENTIUM CPU w/ZIF SOCKET**
- **4 PCI & 5 ISA BUS**
- 512K CACHE MEMORY
- 8MB RAM (EXP TO 128MB)
- **CPU COOLING FAN & HEATSINK**
- **1.2 MB & 1.44 MB FDD**
- **540MB IDE HARD DRIVE**
- **PCI ENHANCED IDE CONTROLLER**
- **2 SERIAL, 1 PARALLEL, 1 GAME**
- **PCI ULTRA PRO SVGA w/1MB (TO 2MB)**
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- **DELUXE MID TOWER CASE**
- **235 WATTS POWER SUPPLY (UL)**
- 101 KEY ENHANCED KEYBOARD
- 3-BUTTON HI-RESOLUTION MOUSE

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*** MULTI-MEDIA UPGRADE:**

*** MULTI-MEDIA KIT-DUAL SPEED CD-ROM 16 BIT SOUND BLASTER COMPATIBLE SOUND CARD**
***ADD $188.00***

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***CALL***

*** MULTI-MEDIA KIT-NEC 510 TRI-SPEED CD ROM • SOUND BLASTER 16 SCSI II SOUND CARD**
***CALL***

## SPECIAL — PENTIUM PCI SCSI STANDARD

| | |
|---|---|
| PENTIUM 90MHz | $2,698.00 |
| PENTIUM 66MHz | $2,428.00 |
| PENTIUM 60MHz | $2,298.00 |

- **SUPER MICRO M/B FOR 90 MHZ**
- **PENTIUM PCI LOCAL BUS M/B (US MADE)**
- **INTEL PENTIUM CPU w/ZIF SOCKET**
- **4 PCI & 5 ISA BUS**
- 512K CACHE MEMORY
- 8MB RAM (EXP TO 128 MB)
- **CPU COOLING FAN & HEATSINK**
- **1.2 MB & 1.44 MB FDD**
- **540 MB SCSI II HARD DRIVE**
- **PCI SCSI II CONTROLLER**
- **2 SERIAL, 1 PARALLEL, 1 GAME**
- **PCI DIAMOND STEALTH 64 BIT w/2MB VRAM (UP TO 4 MB)**
- **17" SVGA MTR 1280 X 1024 .28D.P. N-I w/DIGIGAL CONTROL EPA ENERGY**
- **DELUXE FULL TOWER CASE w/2 COOLING FANS**
- **250 WATTS POWER SUPPLY (UL)**
- 101 KEY ENHANCED KEYBOARD
- 3-BUTTON HI-RESOLUTION MOUSE

*** MULTI-MEDIA UPGRADE:**

*** MULTI-MEDIA KIT-DUAL SPEED CD-ROM 16 BIT SOUND BLASTER COMPATIBLE SOUND CARD**
***ADD $188.00***

*** MULTI-MEDIA KIT-NEC 510 TRI-SPEED CD ROM • SOUND BLASTER 16 BIT SOUND CARD**
***CALL***

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- *** 120W SPEAKER** ..... ADD $64

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***$2138.00***

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- ZIF PENTIUM SOCKET
- 256K CACHE MEMORY
- 16MB RAM (EXP TO 256MB)
- **CPU COOLING FAN & HEATSINK**
- TEAC 1.2 MB & 1.44 MB FDD
- **540MB SCSI HARD DRIVE**
- **ADAPTEC 32 BIT EISA SCSI II CTLR**
- **32 BIT VLB DIAMOND STEALTH 64 w/ 2 MB VRAM (UP TO 4 MB)**
- 2 SERIAL, 1 PARALLEL, 1 GAME
- **FULL TOWER CASE w/2 COOLING FANS**
- **250 WATTS POWER SUPPLY (UL)**
- MONITOR, K/B & MOUSE NOT INCLUDED

## OPTION

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|---|---|
| MS-DOS 6.22 & WINDOW 3.11 (ORIG.) | $85 |
| MS-WINDOWS FOR WORKSGROUP 3.11 | $55 |
| MS-WINDOW NT FOR ADVANCE SERVER | $899 |
| ATI WINTURBO PCI-MACH 64 2MB VRAM | $266 |
| ATI ULTRA PRO PCI-MACH 32 2MB VRAM | $245 |
| PCI DIAMOND STEALTH 2MB DRAM | $205 |
| VLB BUSLOGIC 445S SCSI II CTRL w/FLOPPY | $235 |
| PCI BUSLOGIC IDE CACHING CONTROLLER | $229 |
| PCI BUSLOGIC SCSI II CONTROLLER | $249 |
| PCI IDE ENHANCED CONTROLLER | $29 |
| PCI SCSI II CONTROLLER (NCR CHIPSET) | $75 |
| 14400 INTERNAL FAX MODEM | $68 |
| 9600 / 2400 FAX MODEM | $29 |
| 14400 EXTERNAL FAX MODEM SPORTSTER | $138 |
| 14400 INTERNAL FAX MODEM SPORTSTER | $118 |
| 250MB CONNER TAPE BACKUP (INT / EXT) | $149/245 |
| 250MB COLORADO TAPE BACKUP (INT / EXT) | $169/325 |
| 1 GB COLORADO SCSI TAPE BACKUP | $725 |
| 4 GB WANG DAT 3200 SCSI TAPE BACKUP USES 4MM TAPE | $1199 |
| 5.25" EXTERNAL SCSI CASE w/POWER SUPPLY | $89 |
| 3.5" EXTERNAL SCSI CASE w/POWER SUPPLY | $83 |
| MICROPOLIS 4110A 1.05GB 8.5MS SCSI DRIVE | $595 |
| MICROPOLIS 4110 AUDIO/VIDEO 1.05GB 8.5MS | $735 |
| MICROPOLIS 2217A 1.75GB 8.5MS SCSI DRIVE | $998 |
| MICROPOLIS 1936 AUDIO/VIDEO 3GB 8.5MS | $2295 |
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| HP DESKJET 520 | CALL |
| HP LASERJET 4L/4P | CALL |
| •CANON: | |
| BJ-600C/200E/230 | CALL |
| •EPSON: | |
| STYLUS 800/COLOR 720 | CALL |
| •SHARP: | |
| JX-9400 LASERJET | CALL |
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Upgradable to 486DX2-66Mhz CPU
2 VESA Local Bus Slots
256K Ext. Cache
4MB RAM (Exp. to 128MB)
1.44 MB FDD (3.5")
210 MB 10 ms HDD IDE+I/O
14" .28 SVGA 1024 X 768 Monitor
1MB SVGA Card
Digital Mini Tower Case
101 Keybd 3 Button Mouse

**$909**

## Local Bus 486

Upgradable to 486DX2-66Mhz CPU
3 VESA Local Bus Slots
256K Ext. Cache
4MB RAM (Exp. to 128MB)
1.44 MB FDD (3.5")
210 MB 10 ms HDD
VESA L-Bus Support 4 HD IDE+I/O
VESA L-Bus 1MB SVGA Card
14" .28 SVGA 1024 X 768 Monitor
Digital Mini Tower Case
101 Keybd 3 Button Mouse

| | |
|---|---|
| 486 SX-33 Mhz | $879 |
| 486DX-33Mhz | $909 |
| 486DLC-40 Mhz | $879 |
| 486DX2-66 Mhz | $999 |

## Green 486PC

Upgradable to 486DX4-100Mhz CPU
3 VESA Local Bus Slots 256K Ext. Cache
4MB RAM (Exp. to 128MB)
1.44 MB FDD (3.5")
210 MB 10 ms HDD
VESA L-Bus Support 4 HD IDE+I/O
VESA L-Bus 1MB SVGA Card
14" .28 SVGA 1Green, Non-Int.
Low Radiation Monitor
Digital Mini Tower Case
101 Keybd 3 Button Mouse

| | |
|---|---|
| 486 SX-33 Mhz | $889 |
| 486DX-33 Mhz | $979 |
| 486DL2-66 Mhz | $1009 |
| 486DX4-100 Mhz | $1339 |

## Pentium Power

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Build In high Speed IDE+I/O
PCI Diamonth Stealth
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Low Radiation Monitor
Digital Mini Tower Case
101 Keybd 3 Button Mouse

| | |
|---|---|
| Pentium 60 Mhz | $1799 |
| Pentium 66Mhz | $1949 |
| Pentium 90Mhz | $2199 |

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DOUBLE SPIN CD-ROM, W/ 12 CD-ROM TITLES, 16 BIT SOUND CARD, & STEREO SPEAKERS **$ 235**

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*Systems includes:*
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1.44MB FD, 101 Click Keyboard

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|---|---|
| 486SX-40 | $179 |
| 486SLC-33 | $195 |
| 386DX-40 | $189 |
| 486DLC-40Mhz VLB 128K W.Math -Co | $245 |
| 486SLC2-66Mhz VLB 256K Cache W/Math-Co | $345 |
| 486SX-33 Mhz VLB 256K Cache | $280 |
| 486DX-33 Mhz VLB 256K Cache | $375 |
| 486DX2-66 Mhz VLB 256K Cache | $425 |
| 486DX4-100 Mhz VLB 256K Cache | $749 |

### Hard Drives

| | |
|---|---|
| 210MB IDE HDD | $ 200 |
| 240MB IDE | $ 205 |
| 280MB IDE | $ 215 |
| 345MB IDE | $ 225 |
| 420MB IDE | $ 240 |
| 540MB IDE | $ 320 |
| 540MB SCSI HDD | $ CALL |
| 1.8 GIG SCSI | $ CALL |

### Mother Board

| | |
|---|---|
| 386-40SX MHz W/CPU | $ 69 |
| 486SLC-33 MHz W/CPU | $ 90 |
| 486SLC2-66 MHz, 256K Cache w/Math-Co VL-Bus | $ 215 |
| IBM 486SLC-66 MHz 356K w/Math-Co 3 VL-Bus | $ 260 |
| 3/486 **Upgrdl** MB from 386-33 to DX2-66, 128K Cache 2 VLB | $ 90 |
| 486 SX/DX MHz **Green** PC MB, 3 VL-Bus 256K Cache | $ 110 |
| Pentium (P5) MB 60/66 MHz 256K Cache, 3 PCI LV-Bus (Build in Local Bus IDE Ctrl. I/O w/2S,1P) | $ 310 |
| Pentium (P5) MB 90/100 MHz, 512K Cache, 3 PCI VL-Bus | $ 535 |

### Graphics

| | |
|---|---|
| Monochrome Card w/ Printer Port | $15 |
| 256K SVGA Card | $30 |
| 512K SVGA Card | $40 |
| 1 MB SVGA Card | $55 |
| 32-Bit VL-Bus w/1 MB Upgrdl to 2MB | $70 |
| PCI Diamond Viper 64 Bit w/2MB | $320 |
| PCI Daimond Stealth w/2MB | $220 |

### Interface Cards

| | |
|---|---|
| 16 BIT IDE+I/O w/2S,1P,& 1G | $15 |
| 32 Bit VL-Bus IDE+ I/O w/2S,1P, & G *(Supports 3rd & 4th H.D.D.)* | $20 |
| SCSI ISA 16 Bit Card, for 7 SCSI Drives | $ 55 |
| 32-Bit Vesa Local Bus SCSI Ctrl. Card | $ 95 |
| 32-Bit Vesa Local Bus SCSI2+IDE+I/O | $110 |
| PCI Fast SCSI Ctrl. for Pentium | $141 |

### Monitors

| | |
|---|---|
| 14" SVGA Monitor .28 DPI, Interlaced | $215 |
| 14" SVGA Monitor .28 DPI, NI | $225 |
| 14" SVGA Monitor .28 DPI, NI Low Rad. | $325 |
| 14" Monochrome TTL Paperwhite | $ 86 |
| 14" Monochrome SVGA Paperwhite | $ 86 |

### FAX / Modem

| | |
|---|---|
| 9600/2400 Int. FAX Modem | $ 40 |
| 9600/2400 Int. FAX Modem | $ 70 |
| 14.4 Int. FAX Modem | $ 95 |
| 14.4 Ex.t FAX Modem | $135 |
| 28.8 Int. FAX Modem | $ 175 |

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2x36 (8MB).. $310

Macintosh Memory Available

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- 14" SVGA .39

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- 14" SVGA, NI
- .28 Green
- Full Screen

**$219**

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- S3 805 Chipset
- 1280 x 1024
- 1MB Upgradable to 2MB

**$79**

### 1280 x 1024 Video Card

- 1MB
- 16.7 Million Colors

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### CPU SPECIAL

| | |
|---|---|
| 486SX-25 Intel | $69 |
| 486SX-33 Intel | 89 |
| 486DX-33 Intel | 179 |
| 486DX2-66 Intel | 229 |
| 486DX4-100 Intel | 589 |
| CPU Fan | 7 |
| Crystal Cooler | 49 |
| 486DX-40 AMD | 162 |
| 486DX2-66 AMD | 205 |
| 486DX-33 Cyrix | 131 |

### CASE

**Mini Tower**

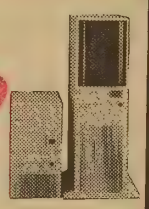
- 3.5" x 2"
- 5.25" x 2"

**$39**

**Medium Tower**

- 3.5" x 2"
- 5.25" x 2"
- LED Display

**$60**



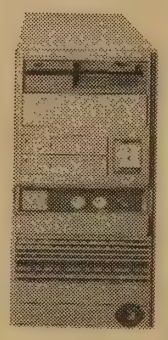
### MANAGER'S SPECIAL

intel inside

### 486 VLB System

- 486DX2/66
- 3 VESA Local Bus Slots
- 256K Cache
- 4MB RAM
- Mini Tower w/200W
- 1.2 & 1.44MB Floppy Drive
- Local Bus SVGA w/16M Colors
- Local Bus IDE Controller
- 2S/1P/1G
- 101 Enhanced Keyboard
- 420MB Hard Drive
- Monitor Not Included

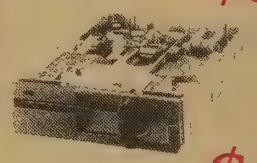
**$919**



### TEAC FLOPPY DRIVES

- 1.44MB, 3.5"

**$35**



- 1.2MB, 5.25"

**$43**

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### SOUND BLASTERS

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|---|---|
| 16 Basic | $125 |
| 16 SCSI | $159 |
| 16 ASP/Multi CD | $199 |
| 16 ASP/SCSI-2 | $219 |
| 32 AWE | $289 |

### CD ROMS

**Double Speed Sony 33A**

- 320ms
- Controller Included

**$129**

**Toshiba 3401**

- Internal
- SCSI

**$259**

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| | |
|---|---|
| Eureka Value Pak 2 | $69 |
| 7th Guest | $19 |
| Rebel Assault | $29 |

500 Other Titles Available

### MULTIMEDIA KIT

- Speakers
- 16 Sound Blaster
- Panasonic 2X CD ROM
- 14 Titles

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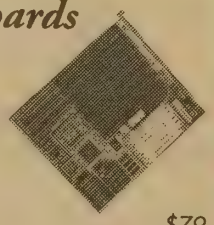
JS

| | |
|---|---|
| J-520 112 Watts per Channel | $89 |
| J-590 112 Watts per Channel | $79 |
| J-818 112 Watts per Channel (Bookshelf Size) | $159 |

### 486SLC Motherboards

- Includes CPU
- 6 Slots
- AMI BIOS

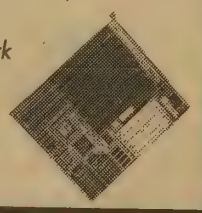


| | |
|---|---|
| 33MHz | $79 |
| 40MHz | $84 |

### 486DLC-40 Motherboard

- Includes CPU/Math Co-processor
- 128K Cache
- 129.77 Landmark Performance

**$139**

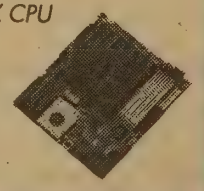


### 486 VLB Motherboard

- 256K Cache
- 30 Pin/72 Pin SIMM
- 486 DX2, DX, SX CPU
- ZIF Socket
- 3 VLB

**$99**

- CPU Not Included



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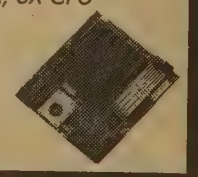

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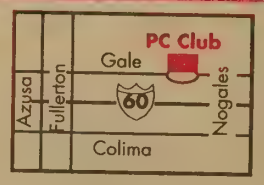


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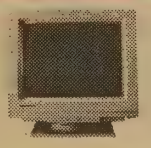

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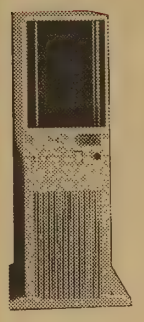

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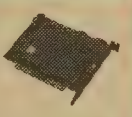

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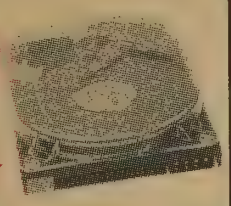

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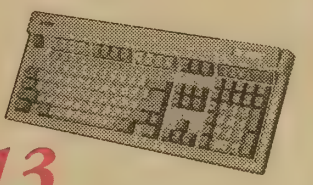

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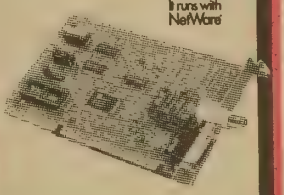

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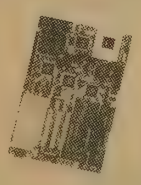

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### Pentium PCI 90MHz Motherboard

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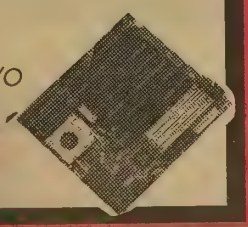
- IDE w/Super I/O on Board



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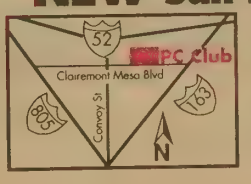


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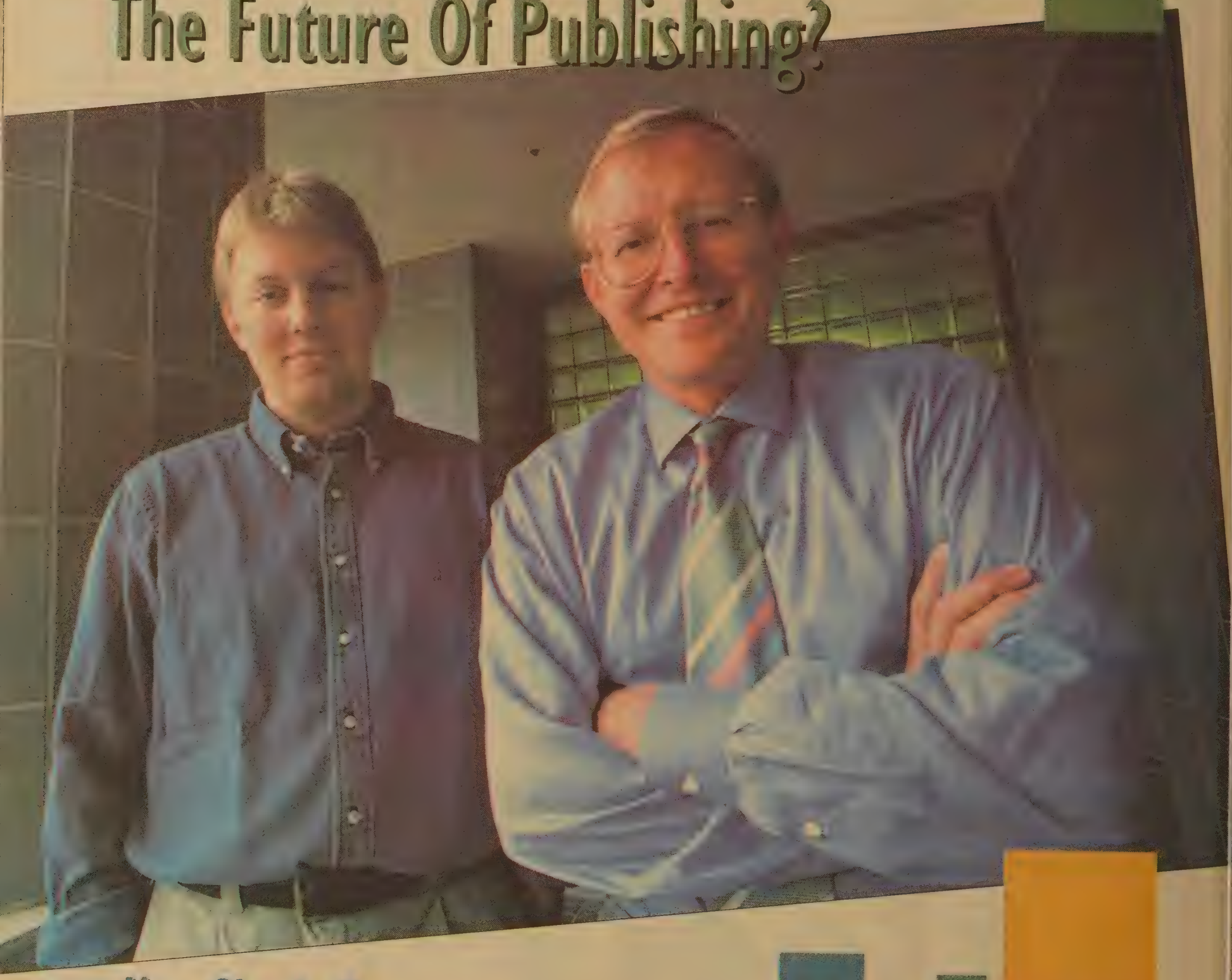
## The Future Of Publishing?



## Jim Clark On Commercializing The Info Highway

By Mary Eisenhart • Photos: Mosaic Communications Corporation

Left Photo: Jim Clark and Marc Andreesen, founders of Mosaic Communications Corporation.

# "If you don't change every year and a half, you're dead," says Jim Clark, in his personal corollary to Moore's Law.

Even by Silicon Valley standards, Clark's recent past has seen some rapid change. From the time he founded Silicon Graphics in 1982, Clark was regarded as the company's chief visionary and charter of its course; he spent much of 1993 involved with such projects as SGI's venture into the emerging market for set-top boxes, designed to bring interactive services to cable TV customers.

In February of this year, he resigned as chairman of SGI, and in April made headlines again with a new startup—Mosaic Communications Corporation. Its mission: enabling a full range of commercial transactions and information exchange on the Internet.

Clark's cofounder in the venture is Marc Andreesen, who only last year graduated from the University of Illinois. While still an undergraduate, Andreesen worked on the staff of the university's National Center for Supercomputing Applications, where he was simultaneously excited about the wealth of information available on the Internet and appalled by the difficulties that beset users trying to access it. His response to the situation was to gather a team of his fellow students to write what's now called NCSA Mosaic—an easy-to-use, point-and-click navigational tool for the Internet.

Freely distributed since last year, NCSA Mosaic now has an estimated two million users and has resulted in an explosion of publishing on the World Wide Web.

Mosaic Communications Corporation, which includes most of the original software's authors, is building products that enhance the functionality of the original Mosaic in strategic ways, notably speed (which, on PC-class machines and ordinary phone lines, is prohibitively slow in the freeware version) and security, utilizing cryptography from RSA Data Security. The first products, due to ship in October, are Mosaic NetScape, client software for Mac, Windows, or X, and Mosaic NetSite, UNIX-based server software.

According to Clark, the ability to transfer money in a secure manner will, for the first time, enable a full range of commerce on the Internet. In particular, it will solve a problem that's beset the publishing industry since the dawn of the digital age—a commercially viable way to sell content to subscribers online. He elaborated on all this when we visited Mosaic's offices in Mountain View. (Mosaic Communications Corporation, 415/254-2601)

**Let's do some catching up... Quite a bit has changed since I saw you last—you were on a panel with some cable company executives at the cable convention last year, and there appeared to be some serious culture clash.**

It's still going on, actually, I think. Somewhere

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along the way I concluded that cable guys were a noninteractive culture and a nondigital culture. And they were talking about interactive digital television *[laughs]*

They'll get there, it's just a very hard thing. They have no digital culture—all the suppliers in that industry are all still dealing with technology that's forty years old, basically. Scrambling analog signals. Doing funny things with analog signals. The right way to do all that stuff is to do it digitally and then encrypt. Digital is so much cleaner.

It's really no fault of theirs that they're coming along so slowly, it's just that they're in the wrong kind of industry. They have this huge one-directional, broadcast-mentality infrastructure that has to be converted to a two-directional, switched digital system carrying data, television signals—TV pictures and sound.

You look at that, as I finally did, and say, "I don't see how they're ever going to get it."

But it was impossible for me as an employee of Silicon Graphics, most especially as the chairman and the person who was the spiritual leader of the place, to be standing up and saying, "I don't believe that this is going to win. The PC is going to win." I couldn't even acknowledge that myself. I had to get out of there in order to acknowledge it.

When I was there, I believed what I was preaching. But once I got out and disconnected, it became obvious to me that the PC was winning. My head cleared fairly quickly. *[laughs]*

I resigned from the board with absolutely no plan specifically, other than I wanted to do something that didn't require that I have to say, "I believe in everything that SGI does no matter whether I was part of the decision or not." And as you know, if you're a board member you have to do that.

Board members are basically endorsers of what the management wants to do, and I didn't want to have to do that, so I resigned altogether, to give myself freedom to think clearly, and freedom to go pursue things that weren't necessarily in SGI's best interests. Not that I'm trying to look for things that aren't in SGI's best interests, but I want the independence and freedom.

### What causes you to believe that the PC is going to prevail over TV?

It's tied up in two things—interactivity and digital.

### From a practical standpoint, what does that mean?

That means that the technology required to do television on a PC is going to be an easier thing to accomplish than the culture shift and the infrastructure upgrade required to switch the television into an interactive digital device.

Going for the PC is the fact that it's already interactive and digital. What's missing? That you incorporate video signals. Silicon Graphics was demonstrating that that was possible digitally; now you can see all that stuff on PCs, the more advanced ones just coming out. Integrated video is going to be there on all of them, it's a no-brainer.

So, given that you have integrated video on a PC, what do you have? You have a smart television.

The computer is going to evolve into that stuff much more readily than television will evolve into an interactive digital device, and it's because of all this inertia.

The truth is that it's going to be some merger of the two still, but the necessary new investment is something that computer people know about. The existing television people aren't real up on the kinds of investment, both software and hardware, that have to be made in order to make it work, so there's a built-in advantage for the computer orientation.

The PC comes at it with a computer orientation. Traditional television people don't.

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### by Moore's Law.

That's right. If you don't change in a year and a half you're dead! [laughs] That's my version of it. Clark's Corollary to Moore's Law.

### So when did you begin to think that Mosaic was more interesting than set-top boxes?

I was fairly unclear on what I wanted to do until I began to talk with Marc Andreesen. Marc began to enlighten me about what the Internet was about and what Mosaic was about.

### How did you come to connect with him?

I just mentioned, "I'm looking for smart guys to partner up with," and a friend of mine said, "One of the guys who wrote Mosaic is out here on the West Coast right now. You might want to contact him."

I said, "Well, how do I reach him?" He went over and typed in "Mosaic" and bingo! there was Mosaic running on the screen. And he said, "Just find your way," and he walked away.

So I began to poke around and found Marc's email address and sent him email, very brief, asking him to meet with me. And so he did.

Little did I know what I was getting into. I went down and had breakfast with him. He let me do most of the talking; he just kind of modestly said that yeah, Mosaic had been his idea, and he pulled the team together to do it. He didn't seem to be too charged about it.

So we went off doing other things. We went off looking for set-top boxes, trying to do a deal with Nintendo, and all these different things. The more we meandered around out there, the more we realized that hey, this is all not going anywhere in any short period of time.

And meanwhile, Mosaic was continuing to explode.

We started talking about it, and once we really hit on the idea of what we wanted to do, we said, "God, we've got to go out and recruit those guys." So we did, real quickly.

We now have ten NCSA employees. This is NCSA West.

### So what are some key things people will be able to do with your product that they can't do with the public domain version of Mosaic? Take me, for example, with my Mac at home, my Plain Old Telephone Service, and my 14.4 modem.

One thing is that you can get a reliable Mac client, bundled with a dialer and all the registration stuff to get you on through an Internet access provider. Once you're on the Internet with this, you can easily browse the net and get quick response.

The very first alpha version of our stuff is ten times faster than what was out of NCSA; we totally rewrote it and restructured the code to deal with the network more efficiently, deal with images more efficiently. There's another factor of somewhere between five and ten that we'll get if people make certain changes to their source documents.

That's a big change. If you're on a 14Kbit modem, it's prohibitive right now.

That's the main thing in the first release. Then there's security. Users may not think about it, but merchants who want to get on the network, and have liabilities associated with taking credit card numbers and the like, do. This first release of the software establishes encrypted protocol between the client and the server, using RSA Data Security public key cryptography.

Currently, if I'm a supplier, I will connect to the Internet given I have information I want to give away. But what if I want to charge for it? That's what this software will do; give you the mechanism to privately conduct commerce between users and suppliers.

Right now there's about two hundred small Internet service providers, who get

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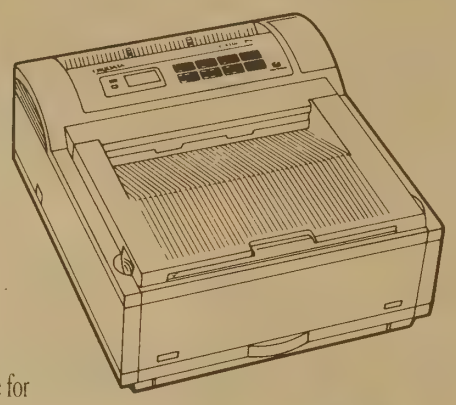

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little tiny amounts of money, because not many suppliers will spend much money to put their data on the net, because they have no way of getting paid for it.

**Getting paid for it aside, though, the net in its current state is a huge vanity press. One of the things people have found most seductive about publishing on the net, say, creating their own Web pages, is that they don't have to go through an editor or a publishing house, they just put it up and it's there.**

The explosion of information like that presents immense problems for those who want someone to prefilter something. One of the reasons I, as a reader, would go to a publisher is that I assume they've done the first-course filter.

The net is going to enable people to put their stuff online and anybody to get to it. If they've got a way to charge for it, there is going to be the occasional rare bird that gets a hit out there.

But I think, with regard to books and the like, part of a publisher's function is to be a filter. People are going to have an easier alternative to the fact that sometimes they seem like an arbitrary filter.

**Ever since he's been talking about Xanadu, for instance, Ted Nelson has been stressing the importance of editors. You subscribe to Trusted Editors X, Y, and Z to find stuff that interests you and present it. Because there's so much stuff to slog through.**

Yeah, so much junk. I think that's probably true. It'd be chaotic.

There's another issue too, another example of why people may go toward the publishers. It may become prohibitively expensive to do it yourself.

The first thing that's going to change very rapidly is that those who want to give information to the net are probably going to have to pay. If I'm a supplier to the network, I'm going to at least have to pay according to the size pipe that connects me to the net. If I want to connect with a little garden hose, then I can at most deliver a garden hose's worth of information, which governs the rate at which I can make money.

Let's say I'm supplying and charging people to read—I mean, no one's going to give it away, right? So I set up a subscription service, which is what our software is going to enable you to do. Anybody can set up a subscription service.

**That's where the crypto comes in, among other things?**

Right. You'll be able to govern who gets access to your service.

Once you've done that, you have to decide: How big a pipe are you going to feed to the net? That governs the rate at which you make money, in some very direct way. Those who own big pipes will be able to make money at a faster rate. By definition, large publishers will own big pipes to the net, because they'll be amortizing the cost of that pipe over many of their people.

So the real challenge for an isolated small publisher is: How big a connection to the network? He won't want to give that information away and let it be duplicated hundreds of thousands of times, because he loses all his money. If he intends to make any money at all, and I think all writers intend to make money as a rule—

**Either that or they're just ego-driven and they want an audience.**

Well, if they're ego-driven, then fine, they get their stuff out there and they've got a name, but everyone's copied it, and...

I think that in the end everyone has to have some economic motivation, because economic motivation is how you pay for your food when you go to the grocery store.

Publishers can buy a big pipe to the net and then they can be selective about who they let occupy some of the bandwidth of that pipe. And when they

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have a hit, they have the whole pipe there.

If you are a random small publisher, and you have a hit—by definition, a hit is when a lot of people are buying it—if you've only got a small pipe, how can a lot of people buy it? You've got delivery problems.

I think there's going to be a kind of economic boundary around this thing. None of this is magic. Internet as it is today is kind of magic, because it's been subsidized by the government, and it's very embryonic in its current state, but when you leverage it up into a viable economic operating entity called The Internet, and you have Internet operators, who make money, then the economic motivation is for big publishers to get a connection to the net that is big, because they can afford it. They're supplying their data to many, many different kinds of readers.

That's one part of it, and another is that the name provides a place to go. Random House, or maybe a virtual bookstore. I guess a person can go to a bookstore independent of the publisher and say, "Will you carry my product?" But even a bookstore is going to say, "Well, who are you? I already deal with Random House and McGraw-Hill and Simon & Shuster and ten thousand other guys." There is a limit to what *they* can do. They can't take random stuff over the Internet.

**So you think that the wild crazy openness we have right now is more or less a blip in evolution, and that the structure of publishing on the Internet is going to look very much like the structure of print publishing now?**

Yeah. There will be entities that will be publishers, and they will be aggregators of content. And filters.

**Right now, garage guys can do things they've never been able to do in previous history. Do you think that's going to go away?**

Well, when Leland Stanford strolled into this valley, he said, "I'm going to claim *that!*" And he did. And he kept it. Wouldn't it be nice if you could walk out there today and say, "I'm going to claim that!"?

Frontier times end, is my point. They do. Space gets staked out, mechanisms get in place, legal contracts get bound—then you have a thing that's a little more rigid. Now it's wide-open frontier time, but the rules are going to be established. They're going to be established with encryption.

It can't be a wide-open free-for-all, because no one makes any money. Even now, the reason the Internet is starting to be economically viable is that companies find it useful to give away brochures, to give away information on the net. So lots of companies are buying a presence on the net today, and paying whatever it takes, and giving away their product literature.

The next step is the ability to control who gets access to what information. You can only do that with encryption. In the first phase the server, the merchant, has a signature, and that allows you to create encrypted sessions; the second phase is authentication of the client, the user, and then you've got point-to-point secure communication, authentication each way.

When that's totally bulletproof, rock-solid secure, you've got commerce in the broadest sense—people able to do wire transfers, initiate stock trades, and the like. That'll come over time on networks like this.

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*continued on page 93*

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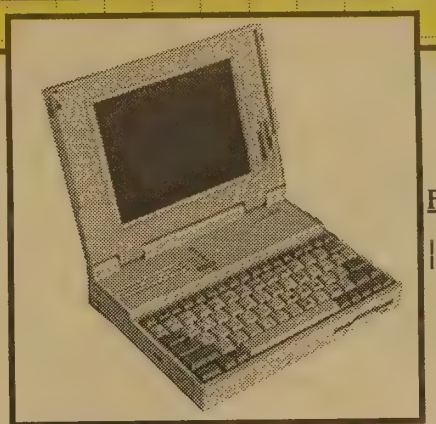

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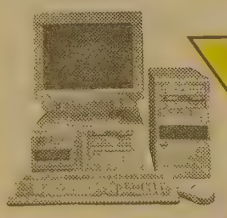

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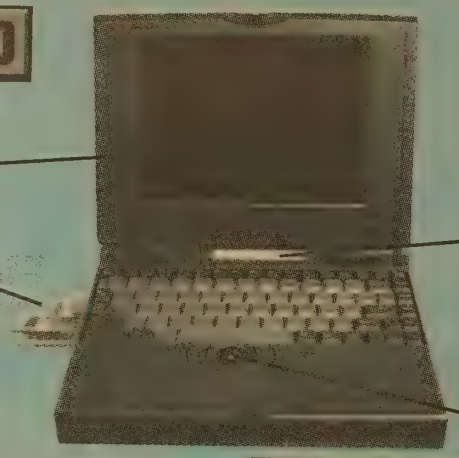
- Sound Card



**Multimedia Notebook**

LOCAL-BUS

PCMCIA

LED INDICATOR:
- Battery in use/Charging
- AC, DC and Low Battery Status
- HDD, FDD in use
- Caps Lock, Numbers Lock Scroll Lock
- PCMCIA in use

16mm center micro track ball

- SL Enhanced 486DX-33, DX2-50/60, DX4-75/100
- 4MB RAM, Easy Expand up to 20MB
- 128KB Bios Flash ROM
- Int. 250MB Hard Disk (340/520MB)
- 3.5" 1.44MB Floppy Drive
- Ports for 1S, 1P (Bi-Directional), VGA, PS2 Keyboard, Audio Jack, Earphone out
- PCMCIA 2 Type II or 1 Type III
- 85/86-Key PC/AT w/12 Function Keys, Keyboard
- 16mm Center Micro Trackball Mouse Built-in
- 10.3" Dual Scan DSTN 640x486 Simultaneous
- 9.5" Active Scan TST 640x486 Simultaneous
- 32-bit Local Bus w/1MB VRAM Windows Accelerator
- NiMH Rechargeable up to 4.5hr Quick-Charge
- Weight: 6.3lbs
  Size: 10.9"W x 8.58"Dx1.75"H
- Accessories for:
  Doching Station, External Battery Charger, Automobile Car Cable

| TROGON 380 | MONO | DSTN | TFT |
|---|---|---|---|
| 486SX-33 4MB/260MB | $1428 | $2025 | $2952 |
| 486DX2-66 4MB/260MB | $1635 | $2264 | $3239 |
| 486DX4-75 4MB/340MB | N/A | $2739 | $3729 |
| 486DX4-100 4MB/450MB | N/A | $2859 | $3839 |

*Mono Model Does Not Have Sound Chip Built-IN

## TROGON 400

LOCAL-BUS

- 486 series CPU (Easy to Upgrade)
- 4MB RAM, Easy to Expand up to 20MB
- Removable 170MB Hard Disk (260,340,520MB)
- 3.5" 1.44MB Floppy Drive
- Simultaneous CRT & LCD Operation
- Ports for 1S, 1P, Ext VGA Monitor/Keyboard
- Ports for AT expansion box
- 83-Key Keyboard
- Carrying Case & AC/Adapter
- Weight 6 lbs. with Battery
- 11.7"W x 8.4"D x 1.95"H

**Removable Hard Drive**

OPTIONAL MODULE PACK AND ACCESSARIES:
- Fax/Modem (14.4/96/2400bps) Module
- Lan Adapter Module / 2nd Serial Port Module
- PCMCIA* Type III Interface Module
- Scanner Module / SCSI Module
- AT Expansion Box

| TROGON 400 | MONO | DSTN | TFT |
|---|---|---|---|
| 486SX-33, 4MB/250MB | $1375 | $1865 | $2865 |
| 486DX-33, 4MB/250MB | $1435 | $1925 | $2899 |
| 486DX2-66, 4MB/250MB | $1539 | $2029 | $2999 |

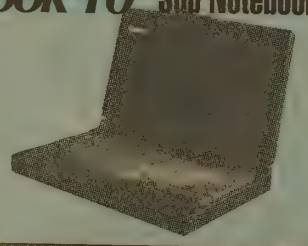
## Canon Notejet & Notejet 2

- 486SX-33/486SLC2-50 MHz
- 4MB Up to 12MB
- 1.44MB Floppy Drive
- 130MB Hard Disk (190MB Option)
- Bubble Jet Printer Built-In
- Automatic Sheet Feeder Built-In
- PCMCIA - 2 Type II
- 10" LCD VGA Screen
- Canon 2-Button Hand Hold Trackball
- MS DOS 6.0, WINDOWS 3.1
- 7.7 Lbs. w/Bubble Jet Printer Inside
- One Year Road Side Service

| NoteJet | MONO | DSTN |
|---|---|---|
| 486SX-33 4/120 | $1577 | $2029 |
| 486SX-33 4/200 | $1940 | $2471 |
| **NoteJet 2** | **MONO** | **DSTN** |
| 486SLC2-50 4/130 | N/A | $2174 |
| 486SLC2-50 4/260 | N/A | $2598 |

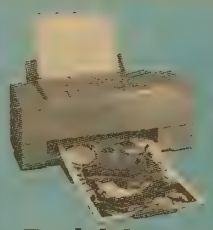
## Canon Book 10 Sub Notebook

- Intel 486SL/33 MHz
- 4MB Up to 20MB RAM
- 512K VRAM
- Ext. 3.5" 1.44MB Floppy Drive
- 170MB Hard Disk (120 or 260MB)
- 8.5"/7.8" Mono/Du-Scan Display
- 1S, 1P, 1VGA, 1KB Port
- PCMCIA Type II Slot
- Bulit -in Track Ball Mouse
- NiCad Battery(Mono), NiMH Battery (Du-Scan)
- Universal AC/DC Adapter 110~240V
- Weight Only 4lbs.
- Size: 11.3"x7.2"x1.5"
- DOS V6.21, Windows V3.11
- One Year Road Side Service

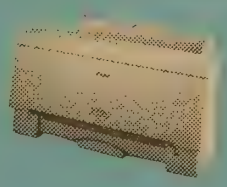


| BOOK 10/C | MONO | DSTN |
|---|---|---|
| 486SX-33 4/170 | $1295 | $1669 |
| 486SX-33 4/260 | $1395 | $1769 |

## Canon

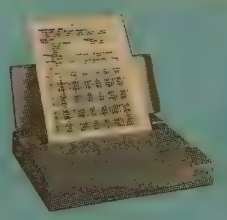


**Bubble Jet BJC-600 color**
360 x 360 dpi
$489



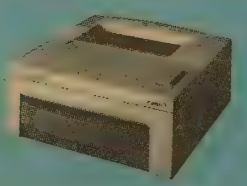
**Bubble Jet BJ-200e**
360 x 360 dpi
256 Gray Scale
$249

**Bubble Jet BJC-4000color**
720 x 360 dpi
$499



**BJ-10sx**
- 110 Characters/Sec
- Laser-Like Printer
- 2-Year Warranty

$245



**LBP-430**
Same as HP 4L
- 22 Fonts ( 8 Scalable )
- 1Mb up to 5Mb
- 2 Year Warranty

$565

## TROGON

- 4Mb RAM,120(200)Mb HD R
- 1.44Mb Floppy Drive
- 9.5" Mono LCD Passive 640 x 480, 64 gray
- Build-in Trackball Mouse
- 1 Serial, Parallel, Mouse, VGA, Keyboard Port
- 83-key keyboard
- Lightweight: 5.5lbs
- Demensions: 8.7" x 11.1" x

## NOVACO

- 486 SLC/2-50 Mhz
- 4Mb RAM
- 1.44Mb Floppy Drive
- 120Mb Hard Disk (200)
- 9.5" Mono LCD Passive
- Trackball mouse
- 83 Keys Keyboard
- Weight: 5.7 lbs
- Dimension: 11"x 8.5"x 1.75"

## CD-ROM DRI Ext.

The CD revolution is here! A ne external CD-ROM drive that sit plugs into your parallel port an you great performance. Suppo ECP and standard parallel ports

## PCMCIA SOLUTIO

14.4 FAX/MODEM
96/24 FAX/MODEM
ETHERNET COMBO
2MB FLASH CARD
4MB FLASH CARD

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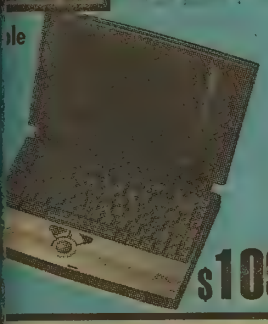
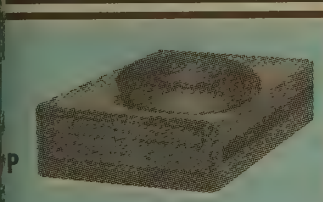
# IA COMPUTER *The* CALIFORNIA COMPUTER

# New TROGON Series



$1095

| VACOMM | 120MB | 200MB |
|---|---|---|
| SLC/2-50 | $995 | $1065 |



$289

## PENTIUM PCI

- Intel Pentium CPU 60/66/90 Mhz
- 256K Cache up to 512K
- 8MB RAM up to 128MB
- 1.2 & 1.44MB Floppy Drives
- 425MB Hard Drive
- PCI IDE/FDD Controller w/2S, 1P
- PCI SVGA Card w/2MB
- 15" Tatung SVGA NI Monitor
- Double Speed CD-ROM
- Sound Blaster 16-bit MCD Sound Card
- 19 CD Titles
- 14.4 Fax Modem
- 80w Power Speaker
- 101 Enhanced Keyboard
- Serial Mouse w/Pad
- Mid Tower Case w/230w PS

90Mhz... $2795

66Mhz... $2525

60Mhz... $2435

## 486DX2 VLB66 Multimedia

- 486 DX2-66 Mhz CPU
- 256K Cache, 2 Local Bus/7 ISA Slots
- 4MB RAM up to 32MB
- 1.2 & 1.44MB Floppy Drives
- 425MB Hard Drive
- VESA Local Bus IDE/FDD Controller w/2S, 1P
- VESA Local Bus SVGA Card w/1MB
- 14" SVGA NI Monitor .28 Dot
- Double Speed CD-ROM
- 16-bit Stereo Sound Card w/2 Speakers
- 101 Enhanced Keyboard
- Serial Mouse w/Pad
- Mid Tower Case w/230w PS

$1458

## 486DX2 VLB66

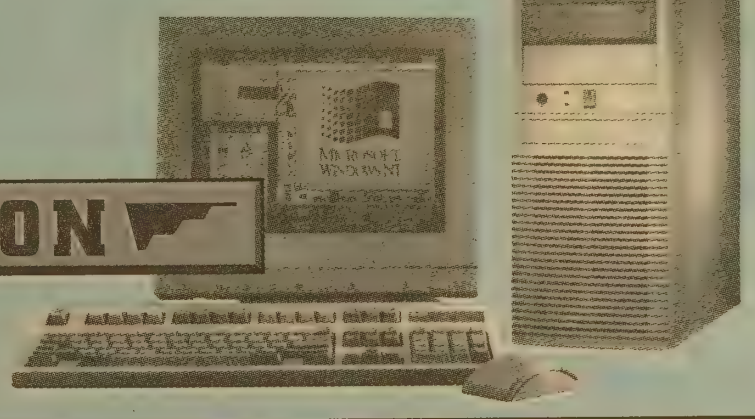
- 486 DX2-66 Mhz CPU
- 256K Cache, 2 Local Bus/7 ISA Slots
- 4MB RAM up to 32MB
- 1.2 & 1.44MB Floppy Drives
- 425MB Hard Drive
- VESA Local Bus IDE/FDD Controller w/2S, 1P
- VESA Local Bus SVGA Card w/1MB
- 14" SVGA NI Monitor .28 Dot
- 101 Enhanced Keyboard
- Serial Mouse w/Pad
- Mid Tower Case w/230w PS

$1145

## 386DX 40

- 386 DX-40 Mhz CPU
- 256K Cache, 8 ISA Slots
- 4MB RAM up to 32MB
- 1.2 & 1.44MB Floppy Drives
- 250MB Hard Drive
- IDE/FDD Controller w/2S, 1P
- SVGA Card w/1MB
- 14" SVGA NI Monitor .28 Dot
- 101 Enhanced Keyboard
- Serial Mouse w/Pad
- Mini Tower Case w/230w PS

$875




## PCMCIA

| | |
|---|---|
| | $175 |
| | $ 85 |
| | $145 |
| | $145 |
| | $290 |

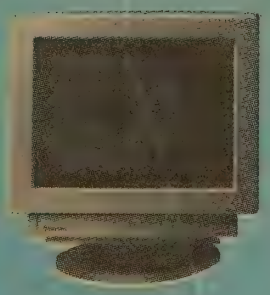
## Flexscan

| | |
|---|---|
| F780i-W | $3150 |
| F760i-W | $1958 |
| F560i-W | $1225 |
| F550i-W | $ 965 |
| F340i-W | $ 655 |

## Trinitron

| | |
|---|---|
| T660i | $2550 |
| T560i | $1434 |

## TATUNG



### CM-17MLP

- 1280 x 1024/.26mm (N.I.)
- 1024 x 768 at 75Hz Refresh
- MPR II Low Radiation
- Multi-sync EPA
- Invar Shadow Mask
- Flat Screen

$749

### CM-17MBR

- 1280 x 1024/.28mm (N.I.)
- 1024 x 768 at 75Hz Refresh
- Digital Control
- Multi-sync
- Dynamic Focus
- Flat Screen

$679

### CM-15VDE

- 1024 x 768/.28mm (N.I.) at 75Hz Refresh
- Digital Control
- Low Emission
- EPA,Flat

$369

### CM-14UAE

- 1024 x 768/.28mm (N.I.) at 60Hz Refresh
- Low Emission
- EPA

$279

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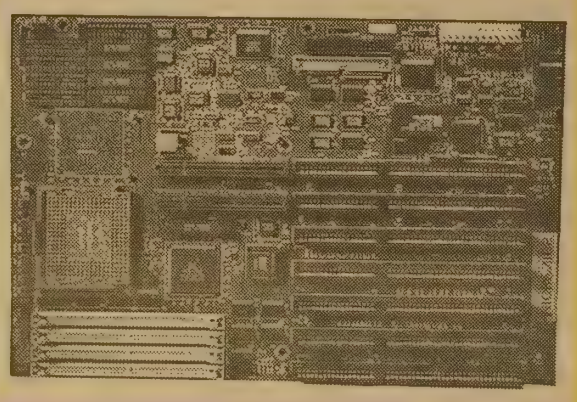
# OPEN TIL MIDNIGHT

## COMPE®

## MICRONICS

MICRONICS

intel inside



## MOTHERBOARDS

# ALL MODELS IN STOCK

### THE BEAST

**$1799**

- ★ MICRONICS 5-6 PCI Motherboard
- ★ Diamond STEALTH 64 Video/2MB VRAM
- ★ 8MB SIMM Memory: 70ns
- ★ 1.2MB/1.44MB TEAC Floppy
- ★ 420MB Western Digital #2420 Hdrive
- ★ Micronics PCI Hi-Speed Ctlr/Onboard
- ★ Gateway Anykey Programmable Keyboard
- ★ Authorized MICRONICS Distributor
- ★ Many Monitors To Select

### SON OF BEAST

**$2599**

- ★ MICRONICS 5-6 PCI Motherboard/90MHz
- ★ Stealth 64 Accelerator/2MB
- ★ 16MB SIMM Memory
- ★ 1.2MB/1.44MB TEAC Floppy
- ★ 540MB Western Digital #2540 Hdrive
- ★ Micronics PCI Hi-Speed Ctlr
- ★ Gateway Anykey Programmable Keyboard
- ★ Authorized MICRONICS Distributor
- ★ Many Monitors To Select

## CUSTOM NETWORKING & MULTIMEDIA.

IBM® HEWLETT PACKARD

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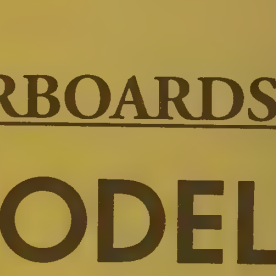


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MICRONICS is a Member of the VESA & PCI Committee

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# 3-6 COMPUTERS

## 2124 CAHUENGA BLVD. HOLLYWOOD, CA 90068

## PHONE 213 466-3636 • FAX 213 466-3693

 *continued from page 88*

**you. You'd pay by the song, at different preset prices. The record companies got paid, the artists got paid.**

Eventually Personics died, for what seemed to be two reasons. The machines were too hard to use; also, for the most part they could only get the little independent labels to put their stuff on the system. The independents loved it—apparently their sales quadrupled in the record stores with Personics machines—but the major labels simply regarded it as a threat to their traditional sales model.

**Has anything changed?**

No. People are going to be hyper-paranoid—"How can I protect my intellectual property?" I think it's going to take a while for them to get really comfortable.

But we're talking about the traditional people who think of their stuff as intellectual property, like the music industry and the software industry. They're going to be careful.

Look at the vast numbers of publishers who have material that's only time-sensitive value. They're not going to be hypersensitive. Just so you can give them a small amount of protection, that it can't be copied for about a week, for the most part they're happy. Where the value of information drops radically with time, those people are going to be out there big-time, because they deliver more quickly, it's time-sensitive information; it's going to be very, very valuable. We're talking about the market of people like yourselves, publishers who want to get an issue out there. You want your readers to get it and be able to get it quickly. Two months from now, it's not nearly as valuable. *Time, Newsweek,* those kinds of publications. That's going to drive the whole thing initially.

Now *National Geographic* tends to publish timeless things. Those who have information, intellectual property, which has timeless value, are the ones who are going to be real concerned about network dissemination of their intellectual property, because of the speed with which it can happen. They're going to be slower to adopt, and there are going to have to be better protections and safeguards in place. What we have to do is create better and better mechanisms to prevent copying.

But compact discs today are copyable. You have a perfect rendition. I can go out today and I could master-copy, in a day's work, intellectual property that gets sent out on a compact disc.

The big difference is how much work is required. *[laughs]* When you make it so that copying takes a lot of work, people are going to be able to publish this way.

**How is Mosaic likely to affect advertising? When he talked to us a couple of months ago, George Gilder said that advertising is going to become more demand-driven, and also that in some cases advertising is part of a publication's value-added.**

A lot of what you think of as advertising is TV-based. There is a brainwashing that's gone on in the last two or three years, that we all hear, because we all watch television. Even a lot of focus of the news, in terms of mergers and the various things that go on, is things like "CBS is being bought." "NBC is being bid for." "Time Warner is...."

But those are relatively small businesses, in a funny sort of global way. The total motion picture industry is only a five-billion-dollar industry. Cable TV is twenty billion.

You start examining the world's publishing industries, and you've got a much bigger collective industry. Because print media is a big business. It just isn't in our face all the time.

Well, exactly what Mosaic is, in its initial phase, is a way for the print industry to turn a page, kind of turn over a new leaf. It's not the TV model at all—it's more the magazine and newspaper model.

## Short Guide To The Latest Wave Of Internet Terms:

**World Wide Web**
- also known as WWW or W3: a system for creating and browsing distributed hypertext documents. Originally developed in Switzerland at CERN, European Particle Physics Laboratory

**NCSA Mosaic**
- an application for browsing a Web server. Originally developed at the University of Illinois, National Center for Supercomputing Applications, Mosaic supports online viewing of hypertext documents with embedded graphics, sounds, and movies. Mosaic also features support for other Internet protocols such as WAIS, Gopher, FTP, and Archie

**URL**
- Uniform Resource Locator: a proposed standard for describing the location of a specific resource or file on the Internet. A URL looks like this: http://www.mojones.com or telnet://ccnet.com
access method://internet address

**HTML**
- HyperText Markup Language, authoring tool for documents on the Web; the language in which Web documents are written

**HTTP**
- HyperText Transfer Protocol, the protocol or access method used in the URL to connect to a Web site

**Home Page**
- A hypermedia document you see when you first enter the Web or the opening "page" when you go to new Web sites

**SLIP/PPP**
- Serial Line Internet Protocol: a protocol that allows a computer to use the Internet protocols and software (and to connect directly to the Internet) with a standard telephone line and a high-speed modem.
- Point to Point Protocol: a newer standard, which is replacing SLIP.

*[points to USA Today page]* These guys make a lot of their money on advertising.

**We make a lot of our money on advertising.**

Exactly. You're in the print media business. When people read your publication, there are certain kinds of advertisers that go to you. You don't, as a rule, have Revlon taking out ad space in your publication.

**We do have a sushi bar...**

But not lipstick. My point is that publication types are really vehicles for delivering advertising to a target audience. *Yachting* magazine—pick it up sometime. Well over half the magazine is advertisements for sailboats. Two or three articles and some ads, and the entire second half of the thing is "This boat's for sale."

The same is true of golf. When you read a golf publication, guess what kind of ads are in it? Golf-related ads.

That kind of advertising is just a fact of life. In fact, you want it. One of the reasons you even read these special-interest magazines is, "Well, I think I'll check out what the latest golf clubs are."

A publisher like IDG—all their PC and related publications have tons of ads about memory upgrades and modems and every conceivable kind of add-on device. It's big business.

**Do you think audiences will get any better at filtering and distinguishing between an advertising statement and an editorial statement, or do you see the lines getting so blurry you won't be able to tell?**

I think there are overt attempts to deceive in that regard with these special advertising supplements. I've been confused numerous times—I've been read-

ing along and say, "Gee, this is weird, it all seems to have the same names," and then I'll notice in the fine print that this is an advertising supplement.

I typically just brush past those, because I don't need that kind of deception. I don't mind ads being in publications. It doesn't bother me; I sometimes want them to be there. But I don't want somebody trying to deceive me that this is an objective statement.

That's a personal statement, but I think most people are going to be that way. What we expect out of journalism is objectivity. Objectivity means that if you think it's a great product, great, say that it sure measured up in your mind. It's not like you're getting paid to say that; you're being objective. And if you think it's a terrible product, say so.

### Where do existing online services fit into this? I gather that the commercial services are interested in your product.

Various of them are. It's kind of a dilemma for them. In order to offer an online service in the last ten years, you basically had to lease your network. Or build your own network—CompuServe built their own network, they built points of presence, modem banks, leased the lines from the carriers, but they were a network operator. Since they got that network up and running they decided they'd lease part of it to VISA for carrying VISA's credit.

The notion of the network operator over the last ten years has not always been distinct from services operation. CompuServe has a services aspect to their business; it's about two-thirds, and the other third is network operations.

AOL leased all of their lines and points of presence from SprintNet; Sprint operates that network.

But now people are going to be able to offer online services over the Internet, because the Internet itself has broken away, and it will be a viable standalone business on its own. It's become a big enough business because so many people connected to it that no single company in the world could build a network as big as the Internet. It would be too prohibitive and expensive.

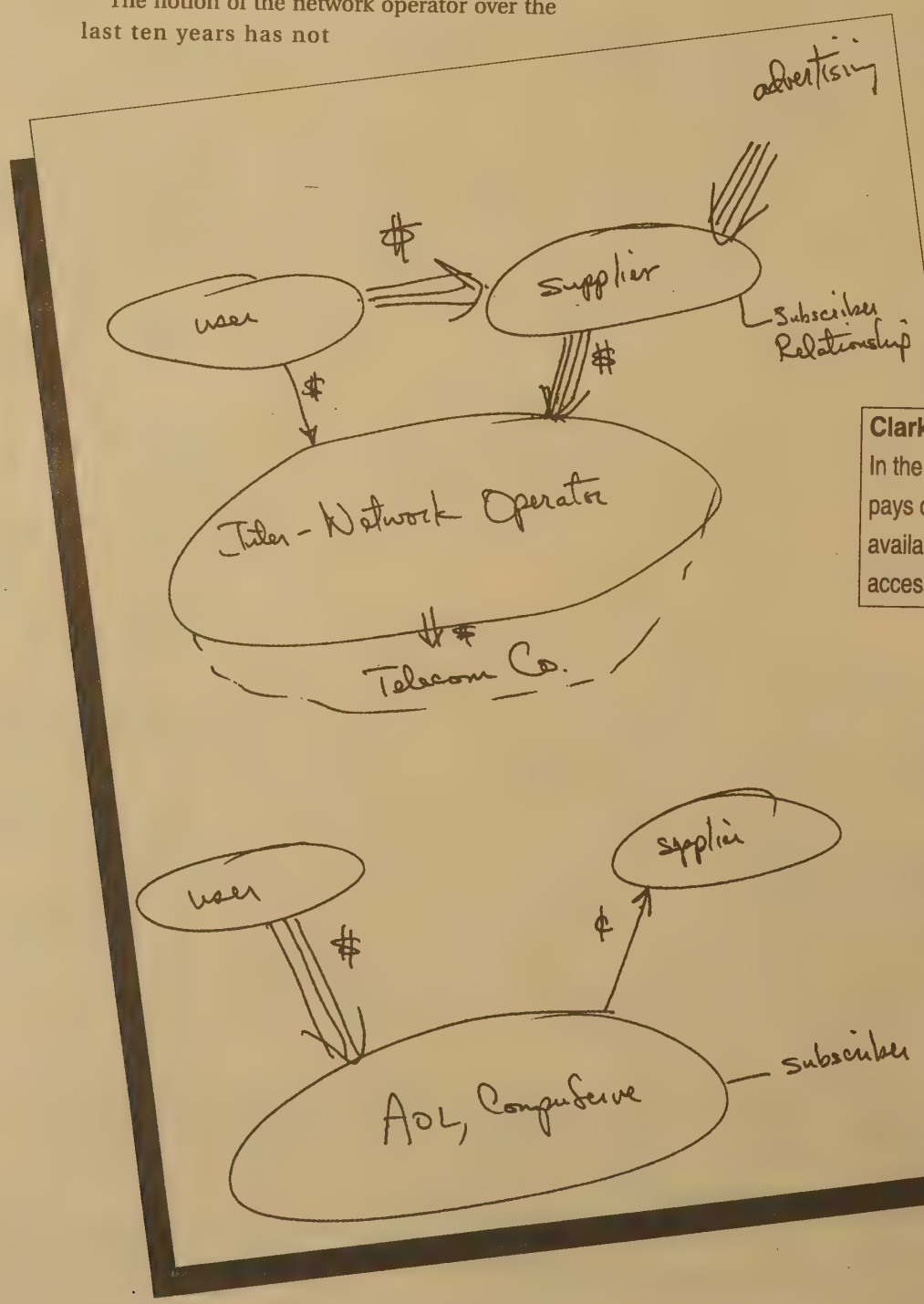
So if you've got encryption, security, the Internet becomes the means, the channel, the conduit, the network, the mechanism that connects users to suppliers of information. Since you've got users who are willing to spend money with suppliers, with security of transactions built into the software that works this network, the user can pay for services. And since the user will be able to pay for services, and that's something unique and new to the Internet, the service supplier or information provider has got the money to pay the network operator.

It becomes a nice healthy cycle. The network operator then has the money to pay for the bandwidth or build the wires, the conduit.

Without some mechanism for the subscriber to pay him, the publisher doesn't have a whole lot of motivation to get connected to Internet. He can't tell who's reading—or he might be able to tell, but he can't charge.

Today's cash-flow model for the CompuServe-like service or the AOL-like service is that the content supplier or the publisher gets money from AOL. AOL owns the subscriber. The content guy is just offering content to the operator.

Today's model for the Internet doesn't have any way for the user to pay with money. But when you enable that, the supplier is willing to spend a lot more money; the user pays the Internet operator a little bit to be connected. The Internet operator could be a telephone company, because they own the fiber and the wire. They could be a network operator, and I think in large measure they will.




**Clark's version of the old and new electronic publishing model.** In the current model, (bottom), the online service charges users for access and pays content providers a small percentage of that money for making their content available. In the model, (top), both users and suppliers pay the Internet provider for access, and suppliers deal directly with the users.

### Do you think the new model will replace the old model, or will they coexist?

They can coexist. AOL can mutate to accommodate this model. They become a content aggregator, a place to go shopping. "Why do you want to go to AOL?" "Well, because I like it. It's got all this neat stuff. I find stuff at AOL that I don't find if I just go out prowling around on the Internet." They may very well coexist.

But it is a fundamentally different model. This [the new model] has a lot more viability because this is exactly your current publishing model. The same exact business model: users subscribe to things from these guys. Because they own the subscriber relationship, they can then tell their advertisers, "This many people read my publication." So the advertiser will pay them more money to be in their publication. That's a very important component.

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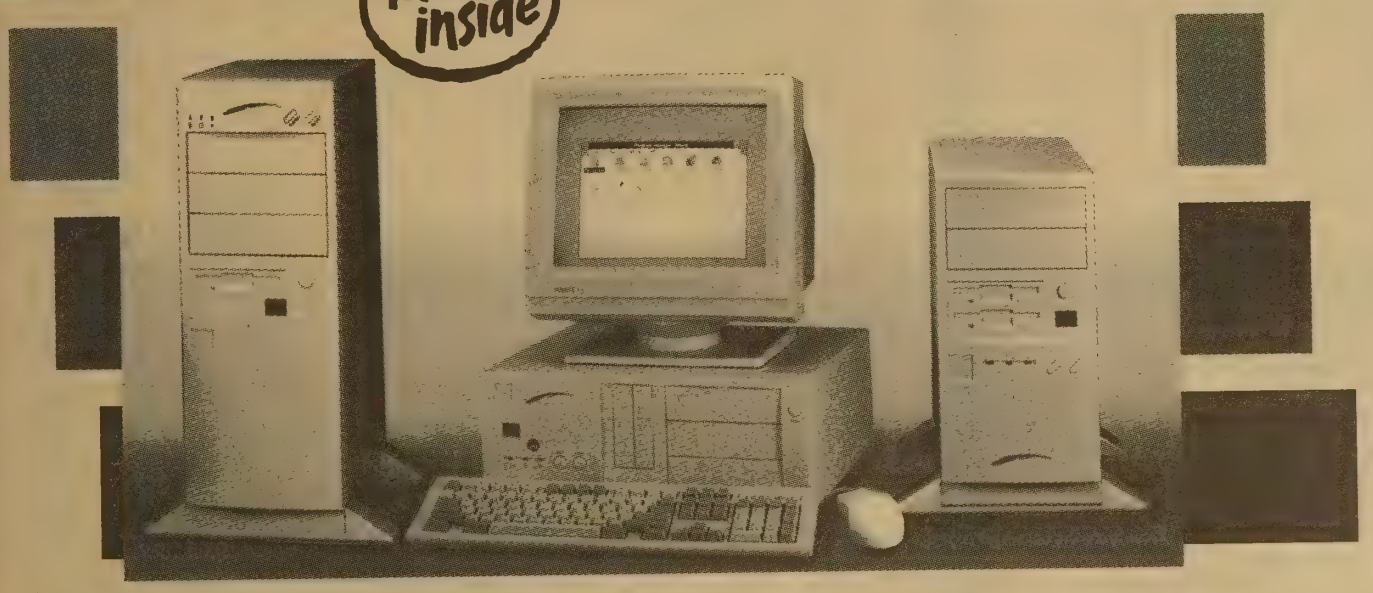

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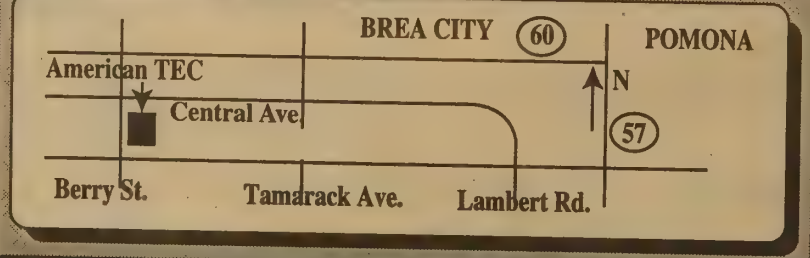




**Your first two products are a client and a server. What about authoring tools to make it easier to actually produce content, the equivalent of PageMaker in the mid-'80s? Right now people can theoretically put content up, but it's a pretty painful process.**

You're going to need some adaptation of tools similar to what you have today for creating content. A Quark-like system that allows hypermedia linking. But Quark is a specific layout system, and it is very page-oriented. Current HTML is not page-oriented, and you don't describe layout—you describe a document and it gets laid out according to a set of rules. It's a little different model.

There's going to be a plethora of authoring systems, and you're going to have a hard time figuring out which ones to use. I think the ones that'll win are those that accommodate a match between what HTML is today and what it becomes. They bridge the gap; they start creating enhancements to HTML.

There's a huge frothy activity that's going to occur over the next couple years, and what will come out will be somewhere in the neighborhood of five to ten new companies servicing this online electronic medium. It's definitely as big as the early '80s. Bigger, in fact—you're talking about a more rapid adoption because of the electronic nature of it.

Bear in mind that you're talking about mechanisms to charge for intellectual property that's delivered over worldwide networks, the ability to charge for anything as small as a single product, to a subscription to a newsletter, to running an Internet shopping center. The software to do all that, the evolution of authoring systems, is going to happen very, very quickly because of the explosive nature of all this. When these systems are available and how quickly they get to market is going to stimulate how quickly the market grows, and we're in the midst of all that.

Right now you have to build distribution channels. Just think—once the whole system is "booted up" and everyone can do electronic commerce because they have public and private keys, what happens to the current distribution channels?

In other words, Fry's ought to be online, big-time. If I were Fry's I would be looking real quickly at how to set up a virtual store.

**Do you see any convergence of this with wireless and PDAs and that whole market?**

Kinda not. I think that's a different world. It may merge together.

**Do you think that will change when the General Magic stuff comes out, which is very oriented toward online commerce? The applications that people like Bill Atkinson talk about are very similar; perhaps they're coming at it from a different point of view?**

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## He's the author of MacPaint and HyperCard and the chief scientist at General Magic.

Well, let's just say that I'm pretty negative on PDAs. I don't get excited about PDAs. It's questionable who needs it.

## It's like pen-based?

That's the best analogy. I really think that PDAs are like pen computing. There may be a time, and it may be ten years from now, when you just can't live without 'em, but right now I feel like I can live without them.

Quite honestly I'd rather carry my portable. I can't get by without my portable anymore—I carry it on vacation. Check in on email and so forth. But I can't see doing that on a PDA. I've gotten used to the keyboard and that's an efficient way for me to interact. Writing is less efficient—I can actually type more rapidly than I can write. And I can edit.

Wireless is a different question. That is a larger issue. I can see portables becoming wireless. Let's just go out a couple of years—I'd love to be able to bring my portable on the plane, and be able to get a little infrared feed, log on to the Internet from the plane. This will happen. That'll be wireless.

The Internet goes everywhere, because it's transport-independent. I'll be able to get online by satellite and by cellular, and do the same kinds of things I do now when I dial up with a 14Kbit modem.

You'll be able to pay for your connection when you've got it open, and it closes quickly; you'll be able to open and close it for asynchronous kind of traffic. Now if you open up a connection and they're spewing video at you, then you've got a full-time, relatively high-bandwidth connection. I think that'll stay wire.

Nicholas Negroponte of the MIT Media Lab has an inversion he likes to talk about—we used to be wireless for television and wired for phone and communication; now we're going to be wired for television but wireless for all other communication.

You'll need wire for video. You won't be getting it over the air because it'll be on-demand.

In order to have interactive video today, you're asking too much. But you can have interactive static media, interactive print media and pictures. That's

*continued on page 101*

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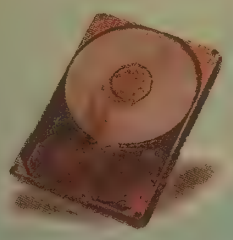

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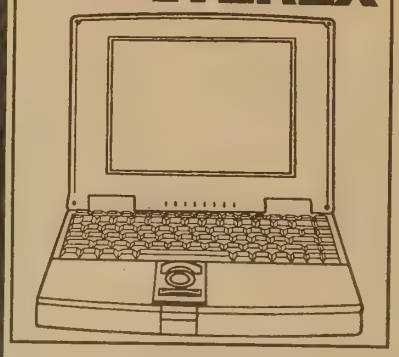

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- •2x IDE CD-ROM Drive
- •15" .28 NI Monitor
- •3.5" Floppy Drive
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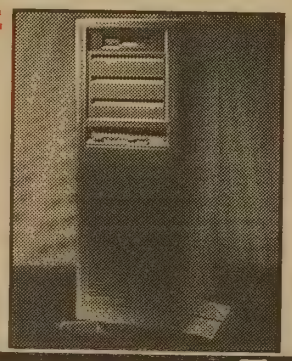

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- •PCI 64-bit SVGA with 1MB RAM
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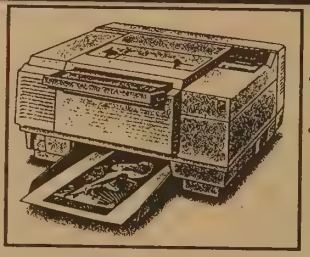

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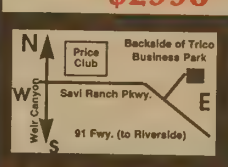


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possible today over 14-Kbit modems. So you can start building the paradigms for interaction today. Mosaic is one of those.

Time marches on, the network gets higher and higher speed. The underlying transport gets higher speed. You get ATM. And suddenly TCP/IP, which is just this little vocabulary for communication, is riding on top of this and getting faster and faster. Then you start being able to stream video, stream audio, and you can use the same paradigm to initiate audio and video.

Mosaic is the navigator for interactive video. It's here today; the same exact paradigm will be applicable to initiating interactive video. As soon as the network can support it, you've already got the software installed base; you don't have to go out and create all these fancy browsers.

This is where the cable strategy of trying to build the video navigator on the basis of a system that doesn't have any installed base is dead-end. The Internet has a huge installed base, and it's going to be even more. ■

## A sampling of interesting Web sites:

**Amnesty International Web site:**
http://cyberzine.org/html/Amnesty/aihomepage.html

**Anne Franke and the Holocaust:**
http://www.cs.washington.edu/homes/ugrads/tdnguyen/Anne_Frank.html

**Australian railway timetables:**
http://brother.cc.monash.au/ccstaff2/che/bromage/www/tt

**Drift Film and Video—a non-profit film and video distribution company:**
http://www.stream.com/avalanche/avalanche.html

**Information on Rwanda/Burundi:**
http://www.intac.com/PubService/rwanda

**Le Louvre:**
http://mistral.enst.fr/~pioch/louvre/

**NASA Ames Research Center K-12 Web Server:**
http://www.nas.nasa.gov/HPCC/K12/endures.html

**Pizza Hut Web server for ordering pizza (currently in trial in Santa Cruz):**
http://www.pizzahut.com

**University of Hawaii, Institute for Astronomy:**
http://galileo.ifa.hawaii.edu/ifa/ifa.html


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| | 486 DX-33 | 4 / 250 MB | $1515 | $2015 | $2999 |
| | 486 DX2-66 | 4 / 250 MB | $1529 | $2020 | $3039 |
| **MEGASOUND** ● True 3.3V system ● PCMCIA II, III. IV ● 1MB VLB video ● 16bit sound w/ spk. | 486 DX4-75 | 4 / 250 MB | $1985 | $2435 | $3490 |
| | 486 DX4-100 | 4 / 250 MB | $2105 | $2555 | $3600 |
| **PENTIMEDIA** ● Multimedia w/ PC video ● PCMCIA ● 32bit LB video ● Upgradable LCD, HDD, RAM, ● Trkball | Pentium 75 | 8 / 520 MB (pen option) | | $3950 | $5130 |
| | Pentium 90 | 8 / 520 MB (pen option) | | $4015 | $5195 |

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- 4MB RAM, 256KB Cache
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- TEAC/NEC 1.2MB & 1.44MB Floppy Drives
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- Green PC ZIF Socket
- 101 Key Keyboard
- Mouse & Mouse Pad

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- 4MB RAM, 256KB Cache
- 420MB Hard Drive
- 32 bit Local Bus 16.7M Color SuperVGA Graphics Accelerator with 1MB (2MB Opt)
- Local Bus IDE Controller
- 2 Serial/Parallel/Game Port
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- Mini Tower Case with 230 Watt Power Supply
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- 101 Key Keyboard
- Mouse & Mouse Pad

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- Local Bus IDE Controller
- 2 Serial/Parallel/Game Port
- TEAC/NEC 1.2 & 1.44MB Floppy Drives
- 14" NI SuperVGA Monitor with Tilt & Swivel Base (1024 x 768, .28mm dp)
- Mini Tower Case with 230 Watt Power Supply
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- 101 Key Keyboard
- Mouse & Mouse Pad

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- 8MB RAM, 256KB Cache
- 420MB Hard Drive
- 2X CD-ROM Drive
- 16 Bit Sound Card w/CDTitle Software
- 32 bit Local Bus 16.7M Color SuperVGA Graphics Accel. w/1MB (2MB Opt)
- Local Bus IDE Controller
- 2 Serial/Parallel/Game Port
- TEAC/NEC 1.2 & 1.44MB Floppy Drives
- 15" NI SuperVGA Monitor with Tilt & Swivel Base (1280 x 1024, .28mm dp)
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- Mouse & Mouse Pad

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## 486DX4-100 VESA

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- 8MB RAM, 256KB Cache
- 420MB Hard Drive
- 2X CD-ROM Drive
- 16 Bit Sound Card w/CDTitle Software
- 32 bit Local Bus 16.7M Color SuperVGA Graphics Accel. w/1MB (2MB Opt)
- Local Bus IDE Controller
- 2 Serial/Parallel/Game Port
- TEAC/NEC 1.2 & 1.44MB Floppy Drives
- 15" NI SuperVGA Monitor with Tilt & Swivel Base (1280 x 1024, .28mm dp)
- Mid Tower Case w/250W UL, CSA Pwr. Supply
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- 15" NI SuperVGA Monitor with Tilt & Swivel Base (1280 x 1024, .28mm dp)
- Mid Tower Case w/250W UL, CSA Pwr. Supply
- Green PC ZIF Socket
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- PCI Bus IDE Controller
- 2 Serial/Parallel/Game Port
- TEAC/NEC 1.2 & 1.44MB Floppy Drives
- 15" NI SuperVGA Monitor with Tilt & Swivel Base (1280 x 1024, .28mm dp)
- Mid Tower Case w/250W UL, CSA Pwr. Supply
- Green PC ZIF Socket
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- Mouse & Mouse Pad

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|---|---|---|
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|---|---|
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| * Exp. to 32MB Memory | +$560 |
| * Exp. to 1GB IDE HARD DRIVE | +$280 |
| * Diamond Stealth 64 PCI w/2MB VRAM(Exp. 4MB) | +$210 |
| * ATI Graphics Pro Turbo w/2MB VRAM | +$370 |
| * MATROX II w/2MB VRAM | +$310 |
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**Option for Upgrade:**

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### CD-ROM

| | |
|---|---|
| TOSHIBA 3401B 2x CD ROM w/adapter | $285 |
| NEC 3x CD ROM w/adapter | $325 |
| Panasonic 2X CD-ROM | $139 |
| TEAC 4X CD-ROM(600KB/Sec) | $395 |

### Sound Card

| | |
|---|---|
| Sound Blaster 16 | $99 |
| Sound Blaster 16, SCSI2 | $165 |
| Sound Blaster 16 AWE32 | $285 |
| Sound Blaster 16, SCSI2, ASP | $225 |

### Tape Backup

| | |
|---|---|
| Conner 250MB Tape Backup | $155 |
| Colorado 250MB Tape Backup | $165 |
| Colorado 250MB Tape Backup(TRAKKER) | $369 |

### FAX/MODEM

| | |
|---|---|
| 2400 MODEM, INT,(SmartLink) | $35 |
| 9624FAX/2400MODEM, INT.(SmartLink) | $45 |
| 14.4 FAX/MODEM, INT.(SmartLink) | $89 |
| 14.4 FAX/MODEM, EXT.(SmartLink) | $120 |
| 14.4 FAX/MODEM, INT.(Robotics) | $139 |

### SVGA Monitors

| | |
|---|---|
| 14" Shamrock Monitor, IN, 1024x, .39dp | $200 |
| 14" Shamrock GREEN, NI, 1024x, .28dp | $249 |
| 15" Shamrock GREEN, NI, 1280x, .28dp | $349 |
| 17" Shamrock GREEN, 1600x1280, .26dp | $739 |
| ViewSonic 15E Monitor | $389 |
| ViewSonic 15 Monitor | $469 |
| ViewSonic 17G Monitor | $819 |
| ViewSonic 7E Monitor, .28dp, 1280 | $749 |
| ViewSonic 20 Monitor, .28dp, LR, 1600 | $1499 |
| ViewSonic 21 Monitor, .25dp, LR, 1600 | $1825 |
| 15" MAG, MX15F, Monitor | $480 |
| 17" MAG, MX17FG, GREEN Monitor | $780 |

### NetWorking Devices

| | |
|---|---|
| 16 bit Ethernet NIC(UTP,COAX) | $55 |
| 3Com EtherLink III UTP | $135 |
| 8 Port UTP HUB | $165 |

### Tower Cases

| | |
|---|---|
| Mini Tower Case 5-Bay w/230W UL PS | $45 |
| Mid. Tower Case 6-Bay w/250W UL PS | $65 |
| Full Tower Case 9-Bay w/250W UL PS | $99 |

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PC Magazine ProAudio Spectrum 16 Sound Card

Toshiba 3401 Fast SCSI-2 CD-ROM

4 PCI SLOTS* DISCRETE PCI GRAPHICS

*ON SOME PENTIUM CONFIGURATIONS—486, 3 SLOTS.

### Maxi Turbo

- **VESA Local Bus mastering slots**
- **4 MB RAM, upgradable**
- **128K fast secondary cache**
- **420 MB** fast IDE hard drive with 64K cache
- 32-bit **VL-Bus IDE hard drive controller**
- **MaxiGraf 32 VLB graphics accelerator, 1MB RAM**, 1280x 1024, up to 16.7 million colors
- **14" SVGA-NI color monitor, 1024x768**
- Enhanced 101 soft-touch keyboard
- 1.44 MB 3.5" floppy disk drive
- High resolution serial mouse
- 2 serial, 1 parallel, 1 game ports

**486DX2/66..... $ 1099**
**486DX/33 ..... $ 999**
**486DX2/50 ..... $ 1049**
**DX2/80 ..... $ 1199**

### Best Buy! Maxi VL Pro

- **VESA Local Bus mastering slots**
- **8 MB RAM, 128K cache**
- **520 MB** fast IDE hard drive with 64K cache
- 32-bit **VL-Bus IDE hard drive controller**
- **MaxiGraf 32 VLB graphics accelerator, 1MB RAM**, 1280x 1024, up to 16.7 million colors
- **15" flatscreen monitor**, 1280x1024, MPR-II *— up to 30% larger edge-to-edge display!*
- Enhanced 101 soft-touch keyboard
- 1.44 MB 3.5" floppy disk drive
- High resolution serial mouse
- 2 serial, 1 parallel, 1 game ports

**486DX2/66..... $ 1399**
**486DX/33 ..... $ 1299**
**486DX2/50 ..... $ 1349**
**DX2/80 ..... $ 1499**

### Maxi Media Pro

- **VESA Local Bus mastering slots**
- **8 MB RAM, 128K cache**
- **420 MB** 11ms IDE HD with cache
- 32-bit **VL-Bus IDE hard drive controller**
- **MaxiGraf 32 VLB graphics accelerator, 1MB RAM**, 1280x 1024, up to 16.7 million colors
- **15" flatscreen monitor**, 1280x1024, MPR-II *— up to 30% larger edge-to-edge display!*
- **Double-speed CD-ROM**, 2 spkrs, 9 CD titles
- 16-bit **Sound Blaster compat. sound** card
- 1.44MB floppy drive and 101 keyboard
- High-res serial mouse, 2S-1P-1G ports

**486DX2/66..... $ 1499**
**486DX/33 ..... $ 1399**
**486DX2/50 ..... $ 1449**
**DX2/80 ..... $ 1599**

### Magna NT-2

- **Intel PCI bus mastering slots**
- **16 MB fast RAM, upgradable**
- **256K fast L2 secondary cache**
- **520 MB** 10ms **SCSI-2** HD with cache
- **PCI SCSI-2 HD controller—*132 MB/sec!***
- **Diamond Stealth64 PCI accelerator, 2MB**, 1280x1024, ***38+WinMarks!*** *(Winbench 4.0)*
- **15" flatscreen, .28dp, 1280x1024**, edge-to-edge display—*low radiation MPR-II*
- Enhanced 101 soft-touch keyboard
- 1.44 MB MB floppy disk drive
- High-res mouse, 2S-1P-1G ports

**486DX2/66..... $ 1995**
**Pentium/60 ..... $ 2295**
**Pentium/66 ..... $ 2395**
**Pentium/90 ..... $ 2695**

## Maximus Any-System Upgrades

- **28.8/14.4 S/R fax modem .....$ 199**
- **250 MB internal tape backup.....$ 159**
- **Double-spin CD-ROM.....$ 159**

- **Basic Media CD-Kit.....$ 259**
  Double-speed CD-ROM player, 16-bit SoundBlaster Pro compatible sound card, 2 hi-fi speakers & 9 CD titles

- **Pro Quad-Media CD-Kit .....$ 649**
  Quadra-speed CD-ROM player, Orchid Soundwave32 16bit DSP sound card, 2 hi-fi speakers & 9 CD titles

# Only Maximus delivers today's 128-bit speed!

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Maximus' new graphic acceleration technology offers you the *absolute World's fastest* speeds in Windows, Unix, Chicago, Windows NT, X-Windows, AutoCAD, OS/2 and Nextstep operating environments! In Windows 3.11, you can expect an *honest* peak performance up to *200% faster* than previous records—*up to 55 Winmarks!* *(Winbench 4.0)*

And, you'll get non-interlaced 24-bit "true-to-life" millions of colors—*even across the full width of large 21" monitors!!!* Or, you can use our "virtual big-screen" in thousands of colors all the way up to 1600x1280 resolution!

Get on the "Graphics Information Super Highway" with our Magna Artist-128, shown right... *or, ask one of our friendly sales reps to quote you a price for this new 128-bit accelerator in your own customized system!*

*New!* **Magna Artist** 4X

### The Ultimate 17" Multi-Media Station

- **16 MB fast RAM, 256K L2 cache**
- **1060 MB** 9ms **IDE** HD with 512K cache buffer
- **PCI Fast IDE hard disk controller**
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- **17" Dig. flatscreen, .26, 1600x1200,** MPR-II
- **Quad-speed SCSI-2 CD-ROM—*600Kb/sec DTR !!!***
- **Orchid Soundwave32 16-bit DSP soundcard with 2 high-fidelity speakers & 9 popular CD titles**
- 101-key enhanced soft-touch keyboard
- 1.44 MB FDD, hi-res serial mouse, 2S-1P-1G

**Pentium/60** ..... $ 3195
**Pentium/66** ..... $ 3295
**Pentium/90** ..... $ 3595

***128-bit* PCI Graphics & Viewsonic *21"*...add $1699**
*PCI video, 4MB VRAM, 1600x1280 digital flatscreen*

## SYSTEM FEATURES

- ❑ 64-bit or *fastest* 128-bit PCI graphics
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- ❑ *Non-integrated* PCI video accelerator
- ❑ PCI hard drive controllers
- ❑ Pentium technology upgradable
- ❑ 256KB cache—*upgradable to 512 KB*
- ❑ 30% larger edge-to-edge monitors & faster refresh-rates—*easy viewing!*
- ❑ All CD-ROM players double, triple or quadra-speed, MPC-II rated

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**12-Month's Parts & Labor Warranty!**

*Best Buy!* **Mega PCI**

- **Intel PCI bus mastering slots**
- **8 MB fast RAM, upgradable**
- **256K fast L2 secondary cache**
- **520 MB** 10ms IDE HD with cache
- **PCI Enhanced "Type-3" IDE** HD controller
- **#9GXE-64** PCI 64-bit video, **1MB** exp. to 2MB, 2048x768 virtual big-screen—*28 Winmarks!*
- **15" flatscreen, .28dp, 1280x1024**, edge-to-edge display—*low radiation MPR-II*
- Enhanced 101 soft-touch keyboard
- 1.44MB 3.5" Floppy disk drive
- High resolution serial mouse
- 2 Serial, 1 parallel, 1 game ports

**486DX2/66** ..... $ 1495
**Pentium/60** ..... $ 1795
**Pentium/66** ..... $ 1895
**Pentium/90** ..... $ 2195

**Mega Media Pro**

- **Intel PCI bus mastering slots**
- **8 MB RAM** and **256K fast L2 cache**
- **520 MB** 10ms IDE HD with cache
- **PCI Enhanced "Type-3" IDE** HD controller
- **#9GXE-64** PCI 64-bit video, **1MB** exp. to 2MB, 2048x768 virtual big-screen—*28 Winmarks!*
- **15" flatscreen, .28dp, 1280x1024**, edge-to-edge display—*low radiation MPR-II*
- **16-bit SoundBlaster Pro compatible card**, with 2 speakers and 9 popular CD titles
- **Double-speed CD player**, 300 KB/sec DTR
- 1.44 MB 3.5" floppy disk drive
- Serial mouse, 2S-1P-1G ports, 101 keyboard

**486DX2/66** ..... $ 1595
**Pentium/60** ..... $ 1895
**Pentium/66** ..... $ 1995
**Pentium/90** ..... $ 2295

**Mega Pro**

- **Intel PCI bus mastering slots**
- **16 MB fast RAM, upgradable**
- **256K fast L2 secondary cache**
- **520 MB** 10ms IDE HD with cache
- **PCI Enhanced "Type-3" IDE HD controller**
- **Diamond Stealth 64 PCI accelerator, 2MB,** 1280x1024, ***38+ WinMarks!*** *(Winbench V. 4.0)*
- **15" flatscreen, .28, 1280x1024, edge-to-edge 30% larger display,** low radiation
- Enhanced 101 soft-touch keyboard
- **Double-speed CD player**, 300 KB/sec DTR
- 1.44 MB 3.5" floppy disk drive
- Serial mouse, 2S-1P-1G

**486DX2/66** ..... $ 1975
**Pentium/60** ..... $ 2275
**Pentium/66** ..... $ 2375
**Pentium/90** ..... $ 2675

*New!* **MAXI•NOTE**

- **Up to 32 MB RAM**
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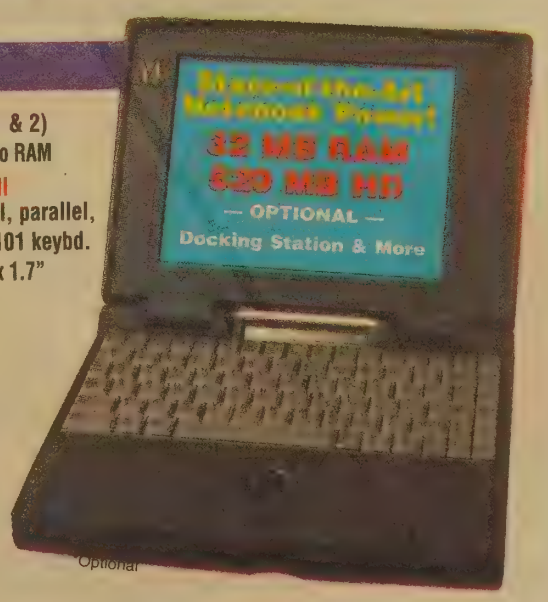
- **Integrated easy-to-use trackball**
- **Ports for docking station, serial, parallel, simultaneous external VGA & 101 keybd.**
- **5.9 lbs with battery, 11.2" x 8.6" x 1.7"**

| ACTIVE MATRIX COLOR | 486DX/33 | 486DX2/50 | DX4/75 | DX4/100 |
|---|---|---|---|---|
| 4 MB RAM, 250 MB H.D. | $ 2975 | $ 3125 | $ 3325 | $ 3395 |
| 8 MB RAM, 340 MB H.D. | $ 3295 | $ 3445 | $ 3645 | $ 3715 |
| DUAL SCAN COLOR | | | | |
| 4 MB RAM, 250 MB H.D. | $ 1975 | $ 2075 | $ 2275 | $ 2345 |
| 8 MB RAM, 340 MB H.D. | $ 2295 | $ 2455 | $ 2645 | $ 2715 |
| BLACK & WHITE (GRAYSCALE VGA) | | | | |
| 4 MB RAM, 250 MB H.D. | $ 1525 | $ 1675 | $ 1875 | $ 1945 |
| 8 MB RAM, 340 MB H.D. | $ 1845 | $ 1995 | $ 2195 | $ 2265 |



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## Pentium 3X Multimedia

- 3 PCI Slots
- 256K Cache
- Intel Processor
- 8MB RAM
- 1.44MB Floppy Drive
- 540MB 13ms IDE Hard Drive
- Built-in IDE Controller
- 2 Serial, 1 Parallel, 1 Game Port
- ATI Mach 64 PCI 2MB
- 15" 1280x1024 Flat Screen Monitor
- 101 Enhanced Keyboard
- Medium Tower Case
- Free Hi-Res 1450 DPI Mouse
- CPU Cooling Fan
- 3X NEC CD ROM
- Sound Blaster SCSI-2 16 Bit Sound Card
- 9 CD Titles, 2 Mini Speakers

| | |
|---|---|
| **Pentium P5-60MHz** | $2379 |
| **Pentium P5-66MHz** | $2499 |
| **Pentium P5-90MHz** | $2729 |
| **DOS & Windows Package** | $90 |
| **Upgrade to 17" SVGA NI Monitor** | $319 |
| **Upgrade to 540MB SCSI HD** | $120 |

Video Card Speed Test with Winmark 3.11

## VESA Win Station

- 256K Cache, 4MB RAM Intel Processor
- Pentium Overdrive Socket Ready
- 1.44MB Floppy Drive
- 420MB, 13ms IDE Hard Drive
- Fast VESA LB IDE Controller (50x Faster than Standard Controller)
- Super VESA LB Win Accelerator Video (16.8M Colors & Up to 1280 x 1024)
- 14" SVGA Color Monitor NI Flicker-Free
- 2 Serial, 1 Parallel & 1 Game Port
- 101 Enhanced Keyboard
- Desktop or Mini Tower Case
- Free Hi Res 1450 DPI Mouse

| | |
|---|---|
| **Intel 486DX-33MHz** | $999 |
| **AMD 486DX-40MHz** | $999 |
| **Intel 486DX2-66MHz** | $1049 |
| **DOS & Windows Package** | $90 |
| **1.2MB Floppy** | $48 |

## VLB Super Fast MultiMedia

BEST BUY!

- 256K Cache, 4MB RAM, Intel Processor
- Pentium P24T Ready Socket
- Double Speed CD ROM Player
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- 1.44MB Floppy Drive
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- Fast VESA LB IDE Controller (50x Faster than Standard Controller)
- 14" SVGA Color Monitor NI Flicker-Free
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- 2 Serial, 1 Parallel, 1 Game Port
- 101 Enhanced Keyboard
- Desktop or Mid Tower
- Free Hi Res 1450 DPI Mouse

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| **Intel 486DX-33MHz** | $1249 |
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| **Intel 486DX2-66MHz** | $1299 |
| **DOS & Windows Package** | $90 |
| **1.2MB Floppy** | $48 |

## Pentium Power House

BEST BUY!

- Intel CPU
- 256K Cache, 8MB RAM
- 1.44MB Floppy Drive
- 420MB, 13ms IDE Hard Drive
- VESA Bit IDE Interface
- VESA SVGA Card 1MB Win Accelerator
- 2 Serial, 1 Parallel, 1 Game Port
- 15" SVGA NI Color Monitor
- 101 Enhanced Keyboard
- Desktop or Medium Tower
- Free Hi-Res Serial Mouse
- Free CPU Cooling Fan

| | |
|---|---|
| **P5-60MHz** | $1629 |
| **P5-66MHz** | $1749 |
| **MS DOS 6.2 & Windows 3.11** | $90 |
| **Multimedia** | Add $249 |
| -2X CD ROM | |
| -16 Bit Sound Card | |
| -2 Mini Speakers, 9 CD Titles | |

## PCI Super Fast MultiMedia

- Intel CPU
- 256K Cache, 8MB RAM
- Double Speed CD ROM
- 16 Bit Sound Card, 2 Mini Speakers
- 9 CD Titles
- 1.44MB Floppy Drive
- 420MB, 13ms IDE Hard Drive
- PCI 64 Bit IDE Interface
- PCI 64 Bit SVGA Card 1MB w/ Win Accelerator
- 2 Serial, 1 Parallel, 1 Game Port
- 15" SVGA NI Color Monitor
- 101 Enhanced Keyboard
- Desktop or Medium Tower
- Free Hi-Res Serial Mouse
- Free CPU Cooling Fan

| | |
|---|---|
| **486DX2-66MHz** | $1699 |
| **P5-60MHz** | $1999 |
| **P5-66MHz** | $2119 |
| **P5-90MHz** | $2349 |
| **MS DOS 6.2 & Windows 3.11** | $90 |

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# FURTHER

## NETWORKING, MULTIMEDIA AND BEYOND

### MULTIMEDIA PACKAGES

**Add Any Package to the System of Your Choice.**

**Package #1** .....$269

Mitsumi CD ROM IDE 300KB/250ms 16 Bit Sound Blaster MCD, 16 Bit, 9 CD Titles

**Package #2** .....$269

Sony CD ROM IDE Double Spin 300KB/320ms 16 Bit Sound Blaster MCD, 9 CD Titles, 2 Mini Speakers

**Package #3** .....$499

NEC 3X CDR 510 SCSI CD ROM 450KB/200ms w/16 Bit Sound Blaster 16 SCSI-2, 9 CD Titles, 2 Mini Speakers

#### CD ROM

| | |
|---|---|
| Mitsumi 2X CD ROM 300KB/250ms | $139 |
| NEC CDR 510 3x Spin Int. OEM | 330 |
| NEC 3xi Spin Int. CDR 500 | 450 |
| NEC 3xe Spin Ext. CDR 600 | 555 |
| Toshiba 3401B Int. SCSI 200ms | 279 |
| Sony 31A 2X CD ROM | 139 |
| TEAC 4X SCSI Int. | 379 |

#### Sound Cards

| | |
|---|---|
| Sound Blaster 16 MCD w/o ASP w/ ASP | $135/179 |
| Sound Blaster 16 SCSI II w/o ASP w/ ASP | $159/199 |
| 2 Mini Speakers/2 Speakers w/Amplifier 80W | $15/49 |

### MOTHERBOARDS W/CPU

| | |
|---|---|
| PCI Pentium 90MHz (Intel) w/256K | $1095 |
| PCI Pentium 90MHz (Opti) w/256K | 1025 |
| PCI P5-60MHz w/256K Intel Board | 769 |
| PCI P5-60MHz w/256K (Opti) | 669 |
| PCI P5-66MHz w/256K (Opti) | 839 |
| PCI P5-66MHz w/256K (Intel) | 879 |
| PCI 486DX2-66 256K Cache | 369 |
| VLB 486SX-33 256K Cache | 199 |
| VLB 486DX-33 256K Cache | 269 |
| VLB 486DX2-66 256K Cache | 349 |
| ISA 386DX-40 128K AMD CPU | 119 |
| IBM ISA 486DLC-66MHz 0K | 119 |

### VIDEO CARDS

| | |
|---|---|
| MGP | $15 |
| Trident SVGA 1MB 16 Bit | 60 |
| Oak SVGA 1MB Accelerator Hi Colors 16 Bit | 55 |
| Trident 9400 SVGA 1MB VESA | 69 |
| #9 GXE DRAM 2MB PCI | 199 |
| #9 GXE Pro VRAM 2MB PCI | 279 |
| #9 GXE DRAM/VRAM 2MB VLB | 199/279 |
| Cirrus Logic 5428 VLB 1MB Exp. to 2MB | 79 |
| Diamond Stealth 32 PCI 2MB | 169 |
| Diamond Stealth 64 PCI w/2MB DRAM/VRAM | 199/299 |
| Diamond Stealth 64 VLB w/2MB DRAM/VRAM | 199/299 |
| ATI Win Turbo Mach 64 VLB VRAM 2MB | 269 |
| ATI Win Turbo Mach 64 PCI VRAM 2MB | 269 |
| Genoa 1MB VLB | 99 |
| Genoa 2MB PCI | 159 |
| PCI Matrox 2MB SVGA | 325 |

### HARD DRIVES

| | |
|---|---|
| 210MB IDE | $169 |
| 260MB IDE/250MB | 199 |
| 420MB IDE | 215 |
| 520MB IDE | 269 |
| 730MB | 399 |
| 820MB IDE | 499 |
| 1.05GB IDE | 579 |
| 540MB SCSI II | 299 |
| 1.05GB SCSI II After Format | 639 |
| 1.2GB SCSI II After Format | 839 |
| 2.0GB SCSI II | 1249 |

### ADD ON CARDS

| | |
|---|---|
| AT I/O (2S, 1P, 1G) | $18 |
| RS 232 Serial Port | 15 |
| Parallel Port | 12 |
| Game Port | 12 |
| UART 16550 AT I/O High Speed | 35 |

### FLOPPY DRIVES

| | |
|---|---|
| 1.2MB | $48 |
| 1.44MB | 40 |
| 2.88MB | 85 |
| 1.2/1.44MB On One FDD | 125 |

### CONTROLLERS

| | |
|---|---|
| XT/AT 2FD | $25 |
| IDE I/O (2S,1P,1G) 16 Bit | 18 |
| Adaptec 1522BK (Bare) | 85 |
| Adaptec 1522BK w/Kit | 149 |
| Adaptec 1542BK (Bare) | 189 |
| Adaptec 1542BK w/Kit | 259 |
| Adaptec 2742 w/Kit, EISA SCSI | 360 |
| Adaptec 2940 (Bare), PCI SCSI | 215 |
| Adaptec 2842 SCSI VESA | 259 |
| Adaptec 2940 w/Kit, PCI SCSI | 315 |
| VLB IDE I/0 2HD/2FD | 29 |
| VLB IDE w/I/0 4HD/4FD | 45 |
| VLB IDE 2S-1P-1G w/2 UART 16550 Comp. | 65 |
| VLB IDE 2S-1P-1G w/2 UART 16550 Comp. Controller 2.88MB | 65 |
| PCI SCSI Controller | 89 |
| PCI IDE Controller | 35 |

### MONITORS

| | |
|---|---|
| Mono VGA 14" | $100 |
| 14" SVGA Interlaced .39 | 195 |
| 14" SVGA Interlaced .28 | 220 |
| 14" SVGA .28 (Full Screen) NI | 230 |
| KFC 15" NI No Digital | 289 |
| CTX 1562 GM 15" NI No Digital | 325 |
| CTX 1760LR 17" .28 | 599 |
| Acer 15" Monitor Digital | 349 |
| Acer 17" Monitor Digital | 645 |
| Viewsonic 6E 14" | 275 |
| Viewsonic 15 | 435 |
| Viewsonic 15E Non Digital | 369 |
| Viewsonic 17 | 899 |
| Viewsonic 17G | 759 |
| Viewsonic 20 | 1469 |
| Viewsonic 21 | 1699 |
| MAG LX1564 15" | 349 |
| MAG MX15F 15" | 448 |
| MAG MX17FG 17" | 799 |
| MAG DX-15F Green | 399 |
| MAG DX-17F Green | 659 |
| NEC 3FGE 15" | 589 |
| NEC 4FGE 15" | 639 |
| NEC 5FGP 17" | 1139 |
| NEC 6FGP 21" | 2069 |

### KEYBOARDS

| | |
|---|---|
| Generic | $18 |
| Chicony 5311 | 23 |
| Chicony 5181 | 33 |
| Chicony 5591 w/Trackball | 59 |
| Focus 2001 | 38 |
| Focus 9001 | 55 |
| Keytronic 101 Keys | 33 |
| NMBS 101 Keys | 39 |
| Fujitsu K4700 | 45 |

### ETHERNET CARDS

| | |
|---|---|
| NE2000 Compatible Combo | $40 |
| Intel EtherExpress/Combo | 129/139 |
| 3 Com C3 509 Ethernet 16 Bit | 139 |
| 3COM EISA Ethernet | 270 |
| Ethernet Novell | 139 |
| Intel 32 Bit EISA | 270 |
| Ethernet Concentrator 8 Ports | 199 |
| Ethernet Concentrator 12 Ports | 399 |

### MOUSE

| | |
|---|---|
| Hi-Res 3 Button Serial | $12 |
| Zenix 3 Button Serial | 15 |
| Logitech Serial/Bus | 55/72 |
| Logitech Trackman Serial | 78 |
| Microsoft Serial/Bus | 29/65 |
| Generic Trackball | 25 |

### TAPE BACK UP DRIVES

| | |
|---|---|
| Colorado 250MB Int. | $159 |
| Colorado 250MB Ext. Tracker | 329 |
| Conner 525MB SCSI Int. | 449 |

### MODEMS

| | |
|---|---|
| 2400 Baud Int. Modem | $29 |
| 96/24 Int. Fax/Modem | 45 |
| 14.4 Fax/Modem Int./Ext. | 79/119 |
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# Product Spotlight

## UPDATES

• **Aladdin Systems** is shipping **Stuffit Expander 3.5**, the latest version of its Macintosh freeware product for expanding files downloaded from online services. The new version includes support for Expander Enhancer. Aladdin Systems, 165 Westridge Dr., Watsonville, CA 95076. (408)761-6200.

• **DayStar Digital** announced a **Universal Upgrade Program**. Registered owners of any DayStar product can now inexpensively upgrade to the latest DayStar products, including discontinued products. DayStar Digital, Inc., 5556 Atlanta Hwy., Flowery Branch, GA 30542. (404)967-2077.

• **DeltaPoint** released **DeltaGraph Pro 3.5 for Macintosh**, a new version of its charting program. Upgrades from v3.0 are $29.95, $79.95 from older versions, and the SRP is $195. DeltaPoint, Inc., 2 Harris Ct., Suite B-1, Monterey, CA 93940. (408)648-4000.

• **DiagSoft** introduced **QAPlus/Win 6.0**, the newest version of its utility program providing online access to support professionals for PC troubleshooting. DiagSoft, Inc., 5615 Scotts Valley Dr., Suite 140, Scotts Valley, CA 95066. (408)438-8247.

• **Hayes Microcomputer Products** released **Smartcom for Windows v1.1**, which now includes RIPscrip Graphics Emulation. Hayes Microcomputer Products, Inc., P.O. Box 105203, Atlanta, GA 30348-5203. (404)840-9200.

• **Monotype Typography** is shipping **Monotype CD 4.0**, a two-CD set of over thirty-four hundred typefaces, including Monotype Classic Fonts, Adobe Type Library, Type Designers of the World, and Clip Art and Software Products. Monotype Typography Inc., 150 S. Wacker Dr., Chicago, IL 60606. (312)855-1440.

• **Mustang Software** released **Wildcat! v4**, with more than 250 enhancements to its electronic bulletin board system software. It is available in five different versions, starting at $129 for the single-line package. Mustang Software, Inc., P.O. Box 2264, Bakersfield, CA 93303. (805)873-2500, BBS (805)873-2400.

• **Practical Peripherals** is offering customers with V.FAST Class modems a **factory upgrade to the ITU-T V.34 standard for $49**. They should request an RMA before sending in their V.FC modems. Practical Peripherals, 375 Conejo Ridge, Thousand Oaks, CA 91361-4928. (805)496-7707.

• **RSA** released **BSAFE 2.1**, an upgrade of its crypto developer's toolkit. The new version includes larger key sizes and more algorithms among other features. RSA Data Security, Inc., 100 Marine Pkwy., Suite 500, Redwood City, CA 94065-1031. (415)595-8782.

• **Spectrum** announced the release of **v6.1 of HR/Pay**, its fully integrated human resource and payroll system. Spectrum Human Resource Systems Corp., World Trade Center, 1625 Broadway, Suite 2700, Denver, CO 80202. 1-800-334-5660.

• **SQA** released **SQA TeamTest for PowerBuilder v3.0**, an upgrade to its automated GUI client/server testing tool for the PowerBuilder development environment. Software Quality Automation, Inc., 10 State St., Woburn, MA 01801. (617)932-0110.

# New Products

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### Pacom KC71e Color Monitor

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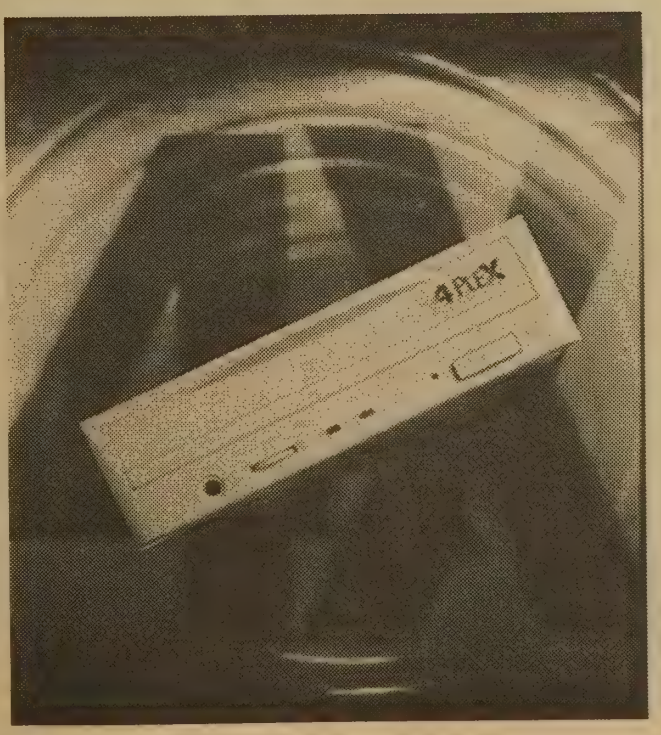


## CD-ROM Hardware

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Product Spotlight

# Reviews

## Game Reviews

### XCom: UFO Defense

**Designed By:** Julian Gollop & Nick Gollop
**Published By:** Microprose
**List Price:** $54.99
**For:** 386, MS-DOS 5.0, 4MB RAM, VGA, mouse required, Adlib/Sound Blaster/Roland/Covox
**Reviewed By:** Fred Haslam

Any time you play till 4:00 am, you know you've got a good game. I nominate XCom for 1994 Game of the Year. This game is a vastly improved version of the classic strategy game Breach. The graphics are similar to Breach II, but the interface is smoother and the tactical battle is set within a well-defined strategy game.

This strategy game is based on the premise that UFOs are the precursor to an alien invasion. Not just one invasion—so far I've identified three races and I would not be surprised to discover more. As you hunt down and capture alien invaders, you research their tech-


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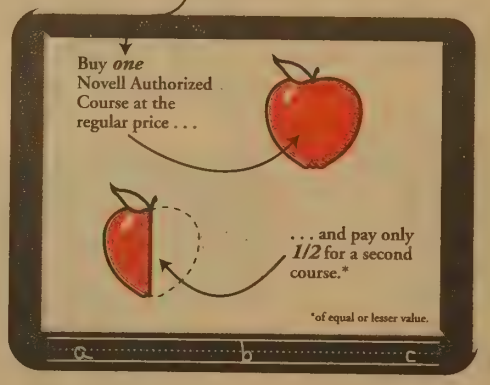


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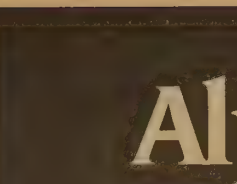

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nology and search for clues to their origin. The tactical situations start with the cleanup of downed UFOs, progress to alien terror attacks on major cities, and advance to the destruction of hidden alien bases.

The interface is smooth and easy to learn. You may need to consult the rules to learn all the intricacies available. The graphics are top-notch, with many comic book quality still frames. The animation in the battle screen is very fluid. The music is subdued, but has the urgent mystery reminiscent of the movie *Alien*. Sound effects are great, from blasters to death cries.

This is a premier tactical game and a good solid strategy game. XCom has the quality of continually surprising me. It grows in complexity as I learn more about the tools available and the forces arrayed against me. Prepare to lose a lot of sleep. (Microprose, Inc., 180 Lakefront Dr., Hunt Valley, MD 21030-2245. 410/771-1151.)


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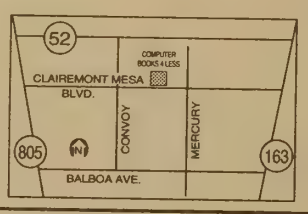
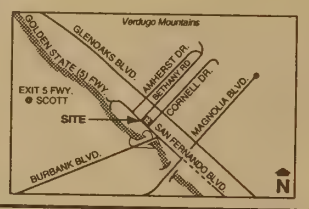




## Al-Quasim: The Genie's Curse

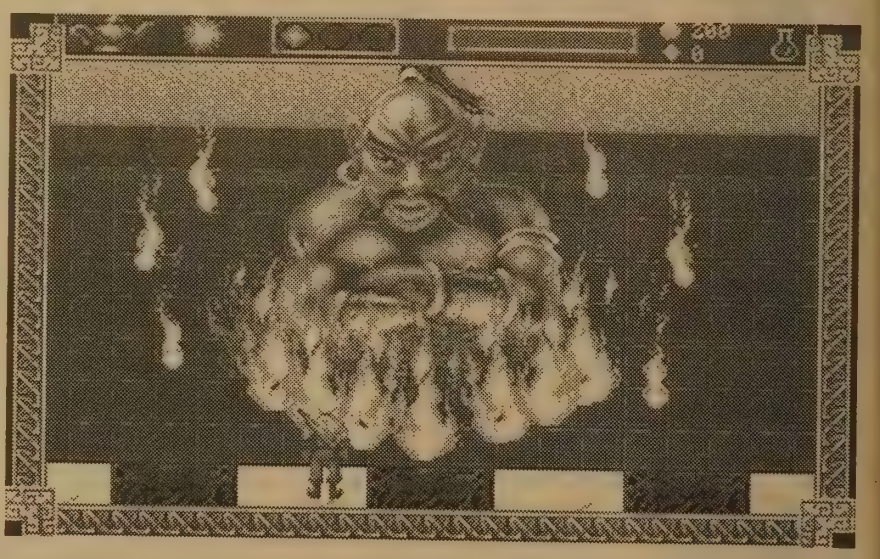
**Designed By:** Herb Perez
**Published By:** Strategic Simulations Inc.
**List Price:** $49.99
**For:** IBM 386, DOS 5.0, 4MB RAM, VGA, CD-ROM @ 150K/s, all major sound cards
**Reviewed By:** Fred Haslam

Genie is a combat/adventure game with an Arabic flavoring. The player solves puzzles and defeats monsters using an overhead combat system reminiscent of Gauntlet. The character advances according to the D&D role-playing system. Genie is a good solid eight hours of adventure.

The adventure begins with your hero returning home to find that the family genie has gone berserk, attacking the Caliph. The Caliph imprisons the hero's family, but allows him to try to prove their innocence. You wander across exotic islands, battling pirates and elementals, eventually entering the realm of the Djinn to find the truth.

The interface is nicely intuitive. With a little experimentation, you can figure out all possibilities. The music does a nice job of capturing the Arabic motif; the sound is competent. The graphics are a little below average, but the overall presentation is decent.

Genie is a good adventure game. It excels in capturing the style of ancient Arabian tales. The game is a bit linear, but given that some puzzles have multiple solutions, this is not a major problem. I found that Genie was slow at the start, but soon became engrossing. (Strategic Simulations Inc., 675 Almanor Ave., Suite 201, Sunnyvale, CA 94086-2901. 408/737-6800.) ■

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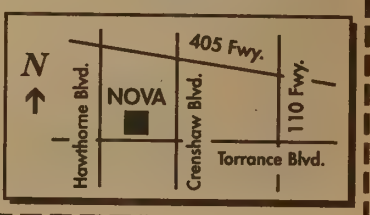

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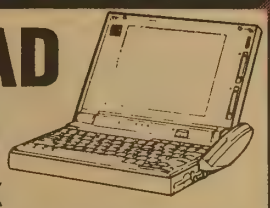

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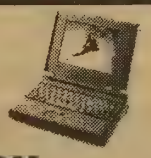

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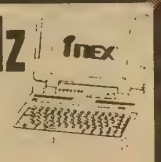

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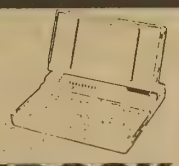

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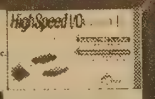

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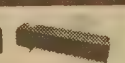

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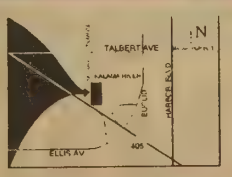


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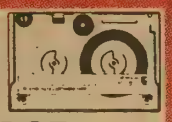

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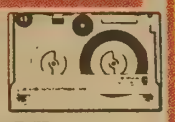

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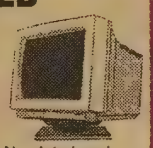

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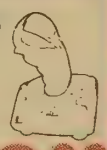

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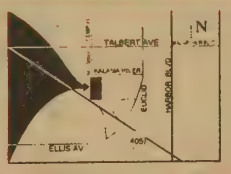


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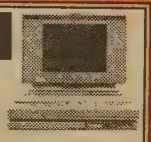

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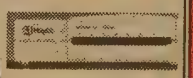

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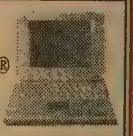

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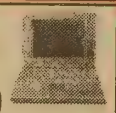

68LCO40 Processor • 50/25 MHz Speed Passive Matrix Color Display • 4MB RAM, expandable to 36MB • Internal Apple SuperDrive® Floppy Disk Drive, Internal 160MB Hard Disk Drive Three expansion slots- One for a processor direct card, One for an internal modem, and One for RAM • Serial port • ABD™ port Video-output port • Power adapter port Sound-input (mono) port and integrated microphone Sound output (stereo) port and speakers SCSI port.

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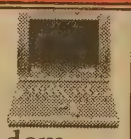

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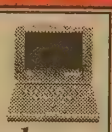

68LCO40 Processor • 66/33 MHz Speed Optional external Apple SuperDrive Floppy Disk Drive, Serial Port • Docking Connector • Power Adapter Port • Modem Port Integrated Microphone and Speakers • 9" backlit active-matrix display with 16 levels of gray.

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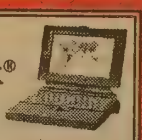
## Apple® PowerBook® 150 4/120



The Apple® PowerBook® 150 is the most affordable PowerBook® computer, combining the performance of 33-MHz Motorola 68030 microprocessor with the convenience of a compact, lightweight notebook system.

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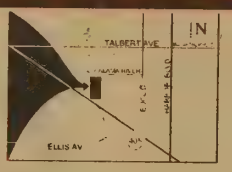


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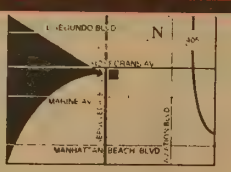


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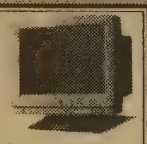
## Apple® 17" Color Multiple Scan Display



Multiple-scan technology allows you to adjust resolution • 17-inch screen Sony Trinitron tube Comes with a tilt-and-swivel base that allows you to position the monitor for optimal viewing comfort • Complies with the EPA's EnergyStar conservation guidelines • Adjustable resolution through software (included): Selectable from 640 by 480 pixels to 1024 by 768 pixels

**$999**

#1925508

## PowerPC™ Apple® Power Macintosh™ 6100/60 16/250 W/SoftWindows™

PowerPC™ 601 RISC processor; integrated math coprocessor60 megahertz speed • Apple SuperDrive® • Standard monitor port • Built-in LocalTalk® and high-speed Ethernet connections; AppleTalk® networking software • Power Macintosh™ will run DOS and Windows™ applications with SoftWindows™ by insignia Solutions

*Power PC™ is a Trademark of International Business Machines Corporation used under liscense there from.

**$2299**

#1897005

## PowerPC™ Apple® Power Macintosh™ 6100/60AV 8/250 CD

PowerPC 601 RISC processor; integrated math coprocessor • 60 megahertz speed 8MB of RAM, 2MB of VRAM, built-in 1.44MB Apple SuperDrive® • 250MB Hard Drive • Internal CD-ROM drive • Two S-video to composite video adapters. • Integrated floating-point unit and 32K cache. • Power Macintosh™ will run DOS and Windows™ applications with SoftWindows™ by insignia Solutions

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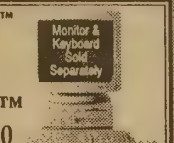
**$2199**

#1896989

## PowerPC™ Apple® Power Macintosh™ 7100/66 16/250 W/SoftWindows™




PowerPC™ 601 RISC processor; integrated math coprocessor • 66 megahertz speed • Internal expansion slots for three NuBus expansion cards • Two serial ports • SCSI port Built-in LocalTalk® and high-speed Ethernet connections AppleTalk® networking software • Power Macintosh™ will run DOS and Windows™ applications with SoftWindows™ by insignia Solutions.

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**$2999**

#1897049

## PowerPC™ Apple® Power Macintosh™ 7100/66 AV 8/500 W/CD-ROM

Features include • 66MHz PowerPC 601 microprocessor with floating-point processor and 32K Cache • DRAM display support • 1MB of VRAM for second display support, expandable to 2MB • 2MB of VRAM for second display including NTSC or PAL monitors™. Power Macintosh™ will run DOS and Windows™ applications with SoftWindows™ by insignia Solution.

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**$3299**

#1897038

## PowerPC™ Apple® Power Macintosh™ 8100/80 8/250 With/CD-ROM

PowerPC 601 RISC processor; integrated math coprocessor and 256K memory cache • 80 megahertz speed • Internal expansion slots for three NuBus expansion cards • Built-in LocalTalk® and high-speed Ethernet connections; AppleTalk® networking software. Power Macintosh™ will run DOS and Windows™ applications with SoftWindows™ by insignia Solutions

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**$3999**

#1897094

## PowerPC™ Apple® Power Macintosh™ 8100/80 AV 16/500 CD-ROM

PowerPC 601 RISC processor; integrated math coprocessor and 256K memory cache• 80 megahertz speed • 2MB VRAM • Expansion slots for three NuBus expansion cards • Video input/output port • GeoPort™ Telecommunication Capabilities • Built-in LocalTalk® and high-speed Ethernet connections; AppleTalk® networking software. • Power Macintosh™ will run DOS and Windows™ applications with SoftWindows™ by insignia Solutions

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**$4699**

#1897119

## Apple® Macintosh® 14" Color Display

The Macintosh® Color Display offers all of these benefits—and sets new standards for performance. With this display you'll see right away that lines are perfectly straight. Edges are sharp. Colors are pure and uniform. And image definition is crystal clear over the entire area of the screen, even in your finely detailed drawings.

**$299**

#1849080

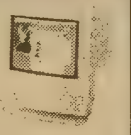
## Apple® 14" Color Macintosh® Display with Trinitron Tube

The new Apple® Color Display provides the high quality and practical ergonomic design you expect from Apple®. And its enhanced electronics allow this 14" monitor to display full-color images with photographic quality. The display's low, stable center of gravity keeps it from being easily tipped over, and its built-in tilt-and-swivel base make adjustment easy.

**$399**

#1738513

## Apple® AudioVision™ Display

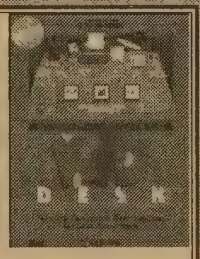


AudioVision™ 14 Display integrates high-quality stereo speakers, microphone, and high-contrast display into a single, sleek package. Speakers deliver CD-Quality sound. Display Quality:
• 14-inch screen, 640 horizontal pixels by 480 vertical lines (at 70 dots per inch)
• Trinitron color picture tube with improved electronics for higher brightness, high contrast and uniform contrast

**$649**

#1820421

## EDMARK KID DESK

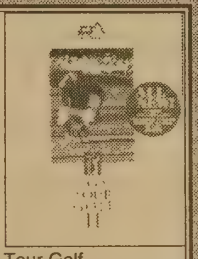



Kid Desk gives kids creative control over their computing environment. It protects hard disk data from a child's curiosity while enabling even young children to launch their own software programs and learn real-life skills.

**$25.95**

MAC
#1742392

## ELECTRONIC ARTS® PGA TOUR GOLF II



Experience the thrill and challenge of PGA Tour Golf. Includes dynamic wind conditions, 10 different ball lies, random pin placement, accurate ball physics, and a variety of special shots.

**$39.95**

MAC
#1920802

## EDMARK SAMMY'S SCIENCE HOUSE

Sammy's Science House offers young children an exciting introduction to the wonders of science. It challenges kids to explore science concepts, and expand their science vocabularies. They will learn about animals, plants, seasons, and weather.

**$34.95**

#1937499

## Apple® Macintosh® System 7.5

New System 7.5 boosts your productivity and enables you to collaborate with others more effectively. It speeds up repetive tasks lets you swap files with PCs and allows you to open Macintosh, DOS, or Windows documents.

**$98.95**

MAC
#1949885

## CLARIS® FILEMAKER PRO 2.1 FOR MAC

With more than 50 new features, FileMaker Pro for Macintosh® gives you even more for scripting, data management, and computing across workgroups.
And adds impact to your files with QuickTime movies!

**$99.95**

MAC
#1957037

## ALDUS PAINT & PUBLISH

Paint & Publish is an incredible bundle of two great products, Aldus Superpaint 3.5 and Aldus Home Publisher 2.0 for Mac.
You can also do charts and graphics for presentations and publish newsletters, fliers, labels and calendars.

**$89.95**

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# Macintosh Accessories

Authorized Reseller

Authorized Reseller

## Apple® StyleWriter® II Printer

The Apple® StyleWriter® II printer, laser-quality printing at an affordable price.
- 360 dots per inch quality
- Multipurpose tray holds up to 100 sheets of paper and 15 envelopes
- Comes with 39 scalable TrueType™ fonts
- Greyshare™ driver software for gray-scale printing
- All Macintosh® products are designed to work together

#1758221

**$267**

## ENHANCE LIBERTY ADAPTER

The Liberty Adapter was created as a bridge between your Apple® Computer and a PC Monitor Features Include:
- Easy to use selector dial
- Sync switching for computers that only output external sync.
- Quick reference label on back of adapter
- Tested for complete compatibility with all Apple® Computers
- Successfully tested by all major monitor manufacturers.

#1898763

**$39.99**

## HEWLETT PACKARD DeskJet 1200C For Mac & DOS

Authorized Dealer

- 600 x 300dpi black text at up to 7 pages per minute
- 300dpi color at 1 to 2 minutes per page creates fast, high-quality output with bold, brilliant colors and true black
- Plain-paper printing for both black and color.
- Both Macintosh and DOS environment.

#1786985

**$1999**

## Apple® LaserWriter Select® 310

The Apple® LaserWriter Select® 310 is the most affordable PostScript™ laser printer ever to come from Apple®, and is designed for personal use by both Macintosh® and Windows computer users. You'll appreciate the printer's speed. And with PostScript™ printing, you'll also get high-quality results and compatibility with all the major application programs.

#1767784

**$699**

## Farallon EtherWave Transceivers

- 10BASE-T Compatible
- Connects up to 8 nodes on a single segment
- Supports up to 100-meter segment lengths
- Self-terminating
- Automatic crossover
- Lifetime warranty

#1896266

**$119**

## Farallon Hook Up With the World's #1 Macintosh Connector

Putting together a network with PhoneNET® is a Snap.
- Gold-plated contacts
- Surge Suppression (ESD) tested to 15,000 volts surge suppression
- Contains 3 mini DIN-8 connectors

3 PACK!

PN 303
#1888069

**$39.99**

## Sonic Systems Macintosh® Networking AAUI TWP Transceiver

#1889680

**$49.99**

## 14,400 BPS MACINTOSH® FAX/MODEM

External Rockwell Data Fax Modem 14,000bps data & fax. Can be orientated horizontally or vertically. Hayes compatible supports V.FC., V.32bis, V.32 and provides output up to 57,600bps utilizing V.42bis/MNP 2-5. Fax modem supports Class 1&2 commands. Limited Lifetime Warranty.

#1955138

**$89.99**

## 28,800 BPS EXTERNAL FAX/MODEM

External Rockwell Data Fax Modem 28,800bps data, 14,400bps fax. Supports V.FC, V.32bis, V.32 and provides output to 115,200 bps utilizing V.42bis/MNP 2-5. Supports Class 1&2 commands. Made in U.S.A. by Aspen and includes limited lifetime warranty, online membership kits, Windows & DOS data & fax communication software, Mac Com Center Software & Mac serial Cable Included.

#1951031

**$179**

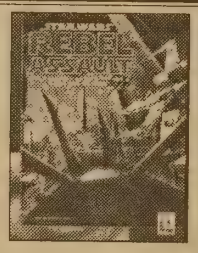
## Apple® Color StyleWriter® Pro

is an ink-jet printer that provides high-quality color printing in a compact design. It is a versatile printer that's perfect for home or office use, since it lets you print your color files at your desk at about half the cost per page of other desktop color printers. The Color StyleWriter Pro includes 64 scalable TrueType® fonts and yields a resolution of 360 dots per inch; ColorShare and ColorSync®.

#1897175

**$599**

## Rebel Assault CD-ROM for MACINTOSH®

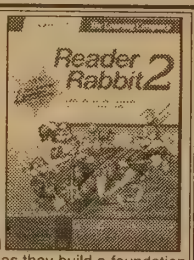


The best CD-ROM game is now available for the Macintosh. Features Include:
- Astonishing 3-D Graphics
- Over a dozen action-packed levels
- Full screen video from the Star Wars movies
- Digitized Speech and movie sound effects.

MAC CD-ROM
#1923964

**$49.95**

## The Learning Company® Reader Rabbit 2



Reader Rabbit 2 is designed to motivate first and second grade level children to read on their own as they build a foundation for successful reading.
It helps children with:
Word Building,
Vowel Sounds,
Word Concepts,
Early Dictionary Skills

MAC
#1747386

**$38.95**

## VEGAS GAMES FOR MAC

Vegas games entertainment package for Macintosh brings the Multi-player aspect of true casino games to your computer wherever and whenever you want. It comes with five complete games:
- Craps
- Poker
- Baccarat
- Blackjack
- Horse Racing

MAC
#1902004

**$19.95**

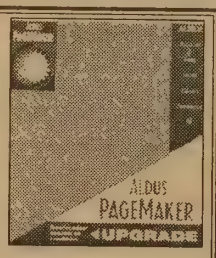
## BERKELEY SYSTEMS Simpsons Screen Saver

Your favoite TV show is now available on software.
- Over forty of your favorite characters
- Great animation, music, sound effects
- PowerMac Compatible
- EcoLogic™ Power Manager

MAC
#1950904

**$27.95**

## ALDUS PAGEMAKER 5.0 UPGRADE FOR MAC



Aldus Pagemaker is the undisputed leader in professional publishing software. Its intuitive features and interactive controls let you manage every phase of a project with unparallelled precision from writing to layout, creating the professional results you need.

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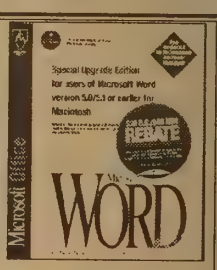
**$129.95**

## Microsoft® Word 6.0 Upgrade for MACINTOSH®



Special upgrade for users of Microsoft Word 5.0/5.1 or earlier.

*After $30 Mail-In Rebate. For Licensed Users Only. In-Store Price...$124.95

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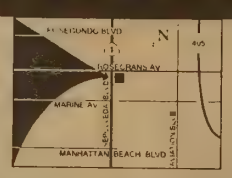


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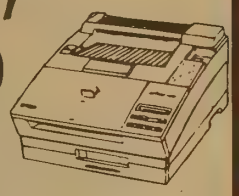
YOU'VE GOT A LOT OF COMPANY

## EPSON® *Action Laser™* 1500



- Fast six pages per minute print speed.
- HP LaserJet III and Epson dot matrix compatible
- 27 resident fonts, 13 scalable
- 1MB memory expandable to 5MB
- 300 dpi resolution w/RIT
- Built-in parallel & serial interface
- 2-year limited warranty

**$619.99**

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## EPSON® *LQ-570+*

**24 PIN PRINTER WITH SCALABLE FONTS!**

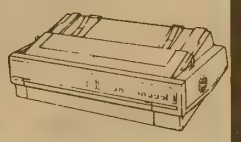
- 80 Column
- 225 - 269 CPS Draft Mode
- 75 - 90 CPS Letter Quality
- Four Scalable Fonts
- 360 dpi with Optional Film Ribbon

**$239**

#1612004

## EPSON® *LQ-1070+*

**24 PIN WIDE CARRIAGE PRINTER**



- 136 Column
- 10 Fonts
- 4 Scalable Fonts
- 225 - 269 CPS Draft Mode
- 75 - 90 CPS NLQ Mode

**$398**

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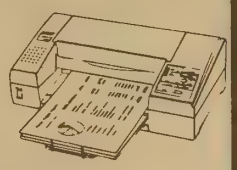
## EPSON® *Stylus*

**COLOR INKJET PRINTER**



- 720X720 dpi
- 16 million colors
- 2 year warranty
- 200 CPS Print Speed

**$599**

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# digital PRINTERS

## digital DECwriter 65

**COLOR DOT MATRIX PRINTER**

- 24-wire color dot matrix printer
- Printer speed up to to 2.8 pages per minute (360x360 dpi)
- Built-in 50-page sheet feeder
- High quality color for home or office
- Two Year Warranty

**$199.99**

#1907342

## digital DECcolorwriter 520ic

**COLOR INKJET PRINTER**

HIGH PERFORMANCE OVER 50% FASTER THAN TOP-SELLING BRAND

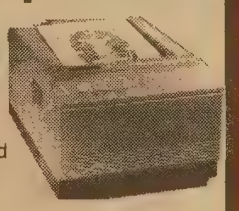
- Print speed up to 5 pages per minute
- 300 x 300 dpi
- Built-in 150 page sheet feeder
- Prints on plain paper, transparencies, labels and envelopes
- MS Windows driver included
- 2 Year Warranty

**$399.99**

#1907272

## digital DEC Laser 1152 PostScript Level 2

**LASER PRINTER**



- 300 X 300 dots per inch
- Printer speed up to to 4 pages per minute
- Paper Types: Cutsheet, labels, transparencies and envelopes
- 2MB memory upgradable to 4MB
- 17 Adobe PostScript fonts, upgradable to 43 fonts.
- Serial/Parallel AppleTalk interfaces

IBM & MAC READY!

**$699**

#1907227

## digital DEClaser 5100 PostScript Level 2

**LASER PRINTER**

- 600 X 600 dots per inch
- Printer speed up to to 8 pages per minute
- Adobe Level 2 PostScript with 73 Adobe fonts
- 2MB memory upgradable to 66MB
- Serial, Parallel and AppleTalk interfaces
- Built-In 250-page sheet feeder

IBM & MAC READY!

**$1499**

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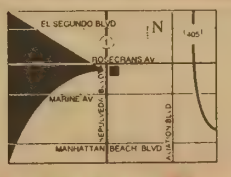


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## Thinkpad 486SX-33MHz Color Notebook

2619-K20 Intel 486SX-33MHz with 8K cache • 4MB RAM expandable to 20MB • Built-in Communications 170MB Removable Hard Drive • 1.44MB Floppy Drive • Dual Scan 9.5" Color Screen • 1MB Local Bus Video • Keyboard • Light Weight Extended Battery Life • MS-DOS • MS Windows • MS Works for Windows • SofNet Fax Works PRODIGY • America Online • IBM Online Housecall OAGF FlightDisk ThinkPad Support • ThinkPad Index ThinkPad Fitness

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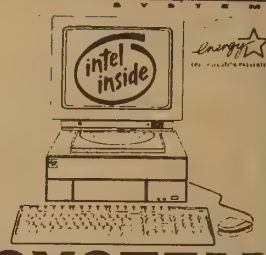
SMART ENERGY SYSTEM

### Model 2133-21C

## 486SX2-50MHz 253MB SVGA SYSTEM




Intel 486SX2-50MHz CPU • 253MB Hard Drive • 4MB RAM • 3.5" 1.44MB/5.25" 1.2MB Floppy Drives Mouse and Keyboard • Internal Modem • Local Bus SVGA

**Preloaded Software:**
DOS 6.0 • MS Windows • Prodigy P/S1 Tutorial, Index, Fitness, Virus check • PS/1 Edition American On-line

**IBM Quality & Reliability:** The PS/1 Expert is built to IBM's exacting standards. • **Support and Service:** The exclusive online PS/1 Club™ answers your computing questions, 24 hours a day, 365 days a year.

**Monitor Not Included.**

**$899**

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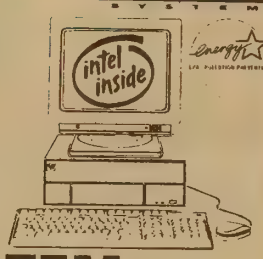
IBM®

SMART ENERGY SYSTEM

### Model 2168-38C

## 486DX2-50MHz 340MB SVGA SYSTEM




Intel 486DX2-50MHz CPU • 340MB Hard Drive • 4MB Memory Expandable to 64MB • 8K Cache 3.5" 1.44MB/5.25" 1.2MB Floppy Drives • IBM Mouse and Keyboard • Internal Fax/Modem • Local Bus SVGA

**Preloaded Software:** DOS 6.0 • MS Windows • PRODIGY P/S1 Tutorial, Index, Fitness, Virus check • PS/1 Edition American On-line

**IBM Quality & Reliability:** The PS/1 Expert is built to IBM's exacting standards.

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**Monitor Not Included.**
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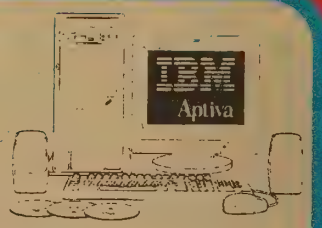


### Aptiva 350

## 486DX2-66MHz 540MB MINI TOWER SYSTEM

Intel 486DX2-66MHz CPU • 540MB Hard Drive • 4MB RAM, expandable to 64MB • 1MB VRAM • 3.5" 1.44MB Floppy Drive • Internal Fax/Modem • Local Bus SVGA • Smart Energy System • Double Speed CD-ROM • Sound Blaster 16 Sound Card • Speakers

**Preloaded Software:** DOS 6.3 • MS Windows™ 3.11 • Prodigy • Quicken SE • Faxworks • Reuter's Money Network • Journalist • IBM Club BM Connection • IBM Housecall • P/S1 Tutorial, Index, • PS/1 Edition American On-line

**Preloaded Multimedia Software:** Compton's Encyclopedia • The Discovers • Undersea Adventure • IBM Photo Display • Recording Session • Introduction to Multimedia • Monologue for Windows™ • Sound Card Utilities • MCS Music Rack • Music Mentor

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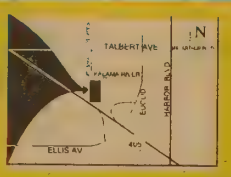


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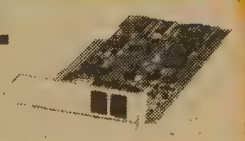
# MODEMS

## 14,400 BPS INTERNAL DATA/FAX MODEM



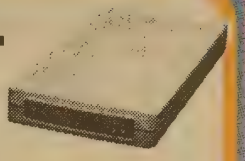
Data Compression ITU V.42 bis or MNP Class 5
- Error Correction ITU V.42 or MNP Class 2-4
- Saves long distance phone costs through faster transmissions
- Improves worker productivity w/faster data transfer and reliable connections
- Protects your investment with a 5 year warranty, backed by AT&T

#1751420

AT&T

**$129.95**

## 14,400 BPS EXTERNAL DATA/FAX MODEM



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- Error Correction ITU V.42 or MNP Class 2-4
- Saves long distance phone costs through faster transmissions
- Improves worker productivity w/faster data transfer and reliable connections
- Protects your investment with a 5 year warranty, backed by AT&T

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## 14,400 BAUD INTERNAL FAX/MODEM

Fax Modem

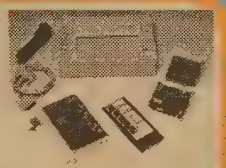
GROUP 3 Compatible • 16550 UART
BITCOM and BITFAX S/W • Supports up to Com 7 and IRQ-9
5 Year Warranty
#1930078

SIIG, Inc.

**$69**

ALACRITY SYSTEMS

## OFFICE IN A BOX



- 600 dpi Sheet Fed Scanner
- 9600 BPS Fax/2400 BPS Modem
- Calera OCR Software

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The Complete PC

## Communicator Gold INTERNAL 14,400 BAUD FAX/MODEM w/VOICE MAIL

MNP5 and V.42 bis • Data throughput up to 57,600bps
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The Intelligent Choice in Data Communications

## WORLDPORT 14,400 BPS FAX/DATA PCMCIA 2.0 MODEM

- 14,400 BPS Data and Fax
- V.42/MNP 2-4 Error Control
- V.42 bis Data Compression Achieves Throughput up to 57,600 bps

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## KEEP IN TOUCH CARD PCMCIA 14,400 BPS DATA AND FAX/MODEM

- High-speed send and receive fax capabilities that support Group 3, Class 1 and Class 2 with up to 14,400 bps transmission speeds.
- CCIT V.32 bis modulation, V.42bis data terminal equipment (DTE) rates up to 57,600 bps.

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AT&T

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## 28,800 BPS INTERNAL FAX/MODEM

V.FC • V.32 bis • MNP 2-5 • V.42 bis
With Windows/DOS Software
Toll-Free 800 Tech Support.
#1950993

**$139.99**

Hayes

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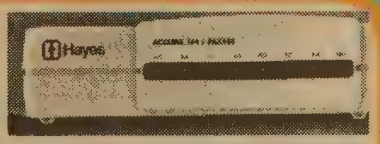

- Free SmartCom Data and Fax Software
- Group 3 Fax
- V.42, V.42bis, MNP 2-5
- Cables included

08-01174
#1798201

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Free SmartCom Data and Fax Software • Group 3 Fax
V.42, V.42bis, MNP 2-5
Cables included
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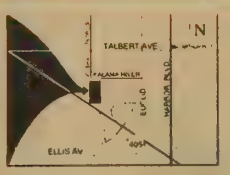


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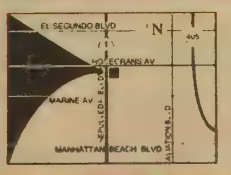


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FaxMe turns your HP printer into a receive only fax machine. It is compatible with all Group III fax machines and will receive at 9,600, 4,800, or 2400 BPS. FaxMe runs without software and without a computer.
Lifetime Warranty.
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for Windows and DOS
Includes MaxFax Software from Prometheus
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## BEST DATA ACE 14,400 BPS FAX/MODEM VOICE MAIL/SOUND

**THE ALL IN ONE BOARD FOR SOUND AND COMUNICATIONS**
V.Fast Upgradable • 16-Bit Stereo
DSP Software Upgradable
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Quick Link II communication Software
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V.32 and V.42 Bis
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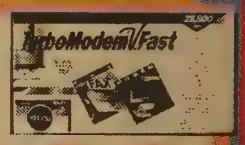
## The Complete PC TurboModemVFast™ EXTERNAL 28,800 BPS MODEM 14,400 BPS FAX




- V.32 bis, V.42 bis, MNP5
- DOS and Windows Software
- Cables

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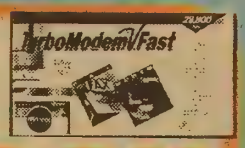
## The Complete PC TurboModemVFast™ INTERNAL 28,800 BPS MODEM 14,400 BPS FAX




- V.32 bis, V.42 bis, MNP5
- DOS and Windows Software
- Cables

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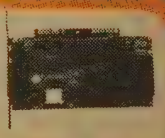
## ZOOM 28.8 BPS INTERNAL FAX/MODEM



- Handshaking at 28.8 bps takes only 6 seconds
- v.42bis, V.42, V.17 Protocols • MNP 5
- Supports Class 1 and 2
- Auto-negotiation
- Buffered 16550 UART to prevent overruns

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**$159.99**

## MACRONIX STEALTH 28.8 BPS INTERNAL FAX/MODEM

- Up to 115,200bps w/compression
- V.42bis MNP-5; V.Fast Class
- WinFax Lite DOSFax Lite
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High Speed Modem Coupler

**CONNECTS A PORTABLE COMPUTER TO ANY TELEPHONE EASILY.**

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- Full or Half Duplex Communication Mode

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• 800 Toll-Free Technical Support
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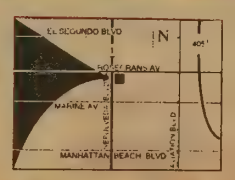


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## 15" SUPER VGA MONITOR

15" 1280 X 1024 Resolution • Flat Trinitron Screen
Energy Star Compliant
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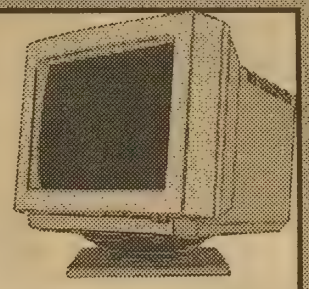
**$449**

## 1024 X 768
## .28MM DOT PITCH
## NON-INTERLACED
## 15" LARGE SCREEN SVGA MONITOR



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## SuperScan™ 15s
## 1280 x 1024
## Non-Interlaced
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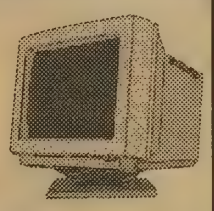

Non-interlaced •28dpi • Flat Screen
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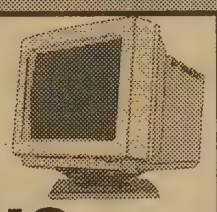
## NEC
## 2V
## MULTISYNC
## 14" SUPER VGA MONITOR



1024 x 768 • Flat Screen • .28 dpi
Non-Interlaced
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## NEC 3V
## 1024 X 768
## .28mm
## Non-Interlaced
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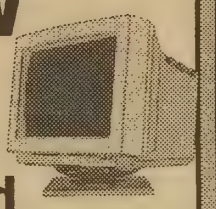

1024 X 768 • .28mm Dot Pitch • Non Interlaced
3V
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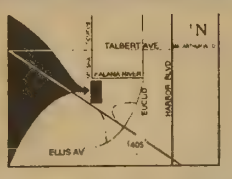


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- Works with Apple Macintosh, PowerBook, Performa, Centris and other ADB compatible models.
- Two button design with "Click and Drag Lock"

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A basic scanning solutionUC630 LE is a great tool for creating presentation materials, newsletters, brochures, flyers, invitations, and more. This comprehensive Package features award winning UMAX 630 300 x 600 dpi color scanner, Adobe Photoshop LE for Macintosh, and Apple PhotoFlash for Macintosh

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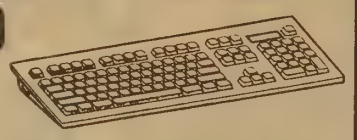
## 105-KEY KEYBOARD FOR MAC



with Wave Design

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## MAC & FAX• 14,400 BAUD EXTERNAL FAX/MODEM

Send and receive Group III fax transmissions. Supports data speeds from 300 to 14,400 and fax speeds from 2400 to 14,400. Fully CCITT V.32 bis and CCITT V.29 compatible. Includes V.42/MNP 2-4 error control and V.42 bis/MNP 5 data compression for thoughput of up to 57,600 bps.

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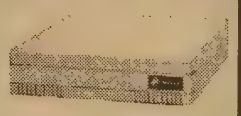

Retail Pack Macintosh With Cable, Terminator and FWB Software

MODEL 85

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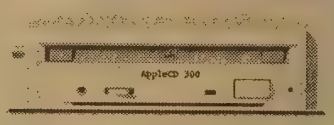
## AppleCD 300™ External



The AppleCD 300· drive allows you to access text, graphics, and sound stored on CD-ROM discs. It's a cost-effective tool for easily accessing the thousands of volumes of information stored on CD-ROM discs.

Data transfer rate 300K per second
256K Buffer • Data access time 259ms
2.50 PIN SCSI connectors • 2 RCA Jacks
Headphone Jack
Reads Multi-session
Kodak Photo CD Disk
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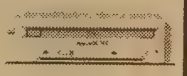
## AppleCD 300™ Internal



The AppleCD 300· drive allows you to access text, graphics, and sound stored on CD-ROM discs. It's a cost-effective tool for easily accessing the thousands of volumes of information stored on CD-ROM discs.

Data transfer rate 300K per second
256K Buffer • Data access time 259ms
2.50 PIN SCSI connectors • 2 RCA Jacks
Headphone Jack • Reads Multi-session Kodak Photo CD Disk
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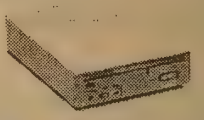
## EXTERNAL CD-ROM FOR MAC



NEC CDR210 • 300ms • 64K Buffer
Kodak Photo CD Compatible
Dual Speed
#1886171

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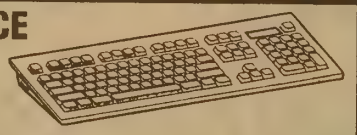
## 105-KEY PRECISION PERFORMANCE KEYBOARD FOR MACINTOSH



- 4 ADB Ports
  Extended Keyboard Features:
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- Spill Resistant #1903452

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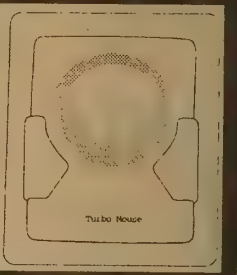


ADB Trackball for all MAC with an ADB port.

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KENSINGTON.

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**Kidz Mouse Makes Learning With Computers Easy And Fun!**

It includes both The Dinosaur Discovery Kit™ software from First Byte™ and Mouseware™ for kids.

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- Built to last; Lifetime Warranty
- Microsoft Compatible
- Two Buttons

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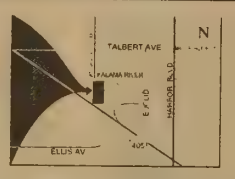


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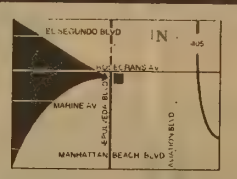


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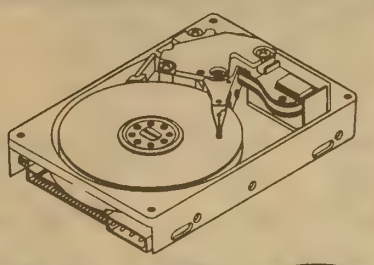
# SCSI HARD DRIVES

## Quantum™ 540MB SCSI HARD DRIVE



1" ht. • 12ms Access • 300,000MTBF • 2 Year Warranty • 128K Cache
#1899029

**$349**

## CONNER 540MB SCSI HARD DRIVE

3.5" X 1"HT.
10msec Access
CP-30540
#1802221

**$299**

## Quantum™ 1.08 GIGABYTE SCSI 3.5" HARD DRIVE

1/2 ht. • 10msec Access Time
512K Cache • Five Year Warranty
#1899052

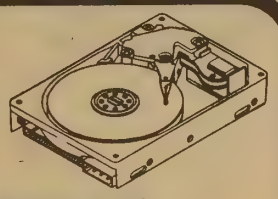
**$639**

## CONNER 1.06 GIGABYTE SCSI - II HARD DRIVE

1" SIZE • 9MSEC FAST ACCESS • 256K CACHE
SMALLEST 1 GIGABYTE
#1844890

**$599**

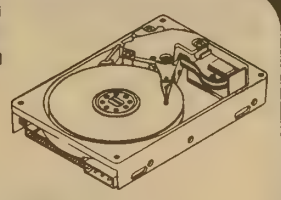
## Quantum™ 2.1 GIGABYTE SCSI-II HARD DRIVE



Empire 2100s
#1928110

**$1199**

## 1.05 GIGABYTE SCSI HARD DRIVE



- 9msec Access Time
- 1/2 ht.
- 256K Cache
- 5 Year Warranty

ST11200N/312OON
#1836338

**$649**

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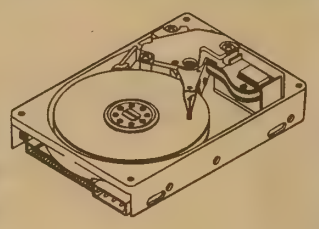
# HARD DRIVES

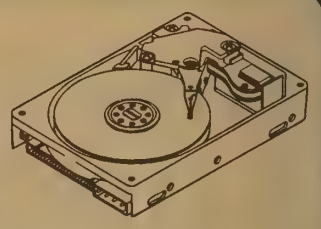
## 213MB 3.5" IDE HARD DRIVE



3.5" IDE Hard Drive 1" Ht.
13ms Average Access Time
SHD3211A
#1936247

**$158**

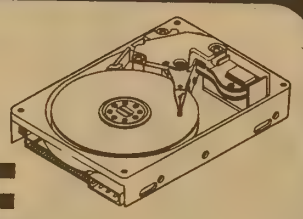
## 250MB 3.5" IDE HARD DRIVE



3.5" Form Factor 1" Ht.
SHD3122A #1786011

**$169**

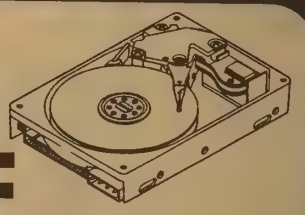
## Maxtor 290MB IDE HARD DRIVE



MAXTOR 7290A #1949597

**$179**

## Maxtor 345MB IDE HARD DRIVE



1" HT. • 15ms Access Time • 345MB Formatted Capacity
MAXTOR 7345A #1781762

**$189**

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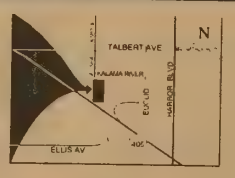


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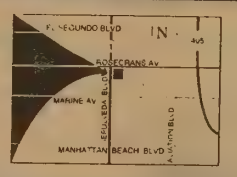


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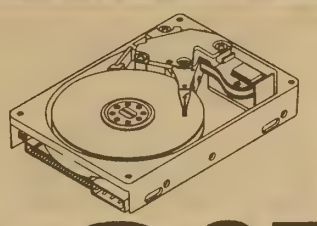
# HARD DRIVES

## Maxtor
## 405MB 3.5" IDE HARD DRIVE



3.5" X 1" ht.
12 msec Fast ATA
256K Buffer
7405A
#1947148

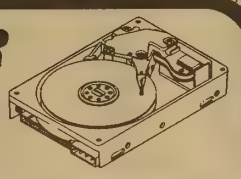
**$219.95**

## 420MB IDE HARD DRIVE

3.5" x 1" ht.
#1920787

**$199**

## CONNER
## 420MB 3.5" IDE HARD DRIVE



14ms Fast Access • 3.5" X 1" • 32K Buffer
IDE Interface
#1886218

**$219**

## 560MB IDE HARD DRIVE

3.5" x 1" ht.
12MSec Access
256K Buffer
#1949933

**$269**

## CONNER
## 540MB IDE HARD DRIVE

3.5" X 1"HT. • 12msec Access
CFA540A
#1802210

**$279**

## Maxtor
## 546MB IDE HARD DRIVE

3.5" X 1"HT. • 12msec Access • 256K Cache
7546A #1912395

**$259**

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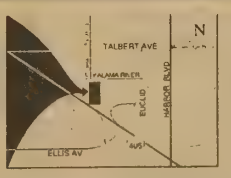


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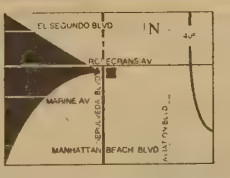


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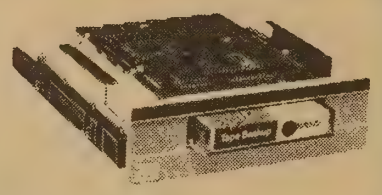
# BACK-UP DRIVES

COLORADO MEMORY SYSTEMS INC.



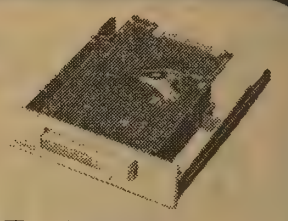
## 250MB TAPE BACK-UP

40/80/120/250 MB Format
Internal Drive runs off floppy controller
Uses DC-2120 Tapes

**$167**

Model DJ-20
#1610068

SUMMIT MEMORY SYSTEMS INC.



## 250MB TAPE BACK-UP

250MB Internal Tape Backup
Runs off of Floppy Controller
Central Point Software For Windows
& DOS • 2 Year Warranty

**$159**

Model SE250
#1635586

CONNER

## 250MB INTERNAL TAPE BACK-UP

USES DC2120 TAPE CARTRIDGE
C250MQT

**$149**

#1825747

CONNER

TAPE•STOR

## 250MB EXTERNAL PARALLEL PORT TAPE BACK-UP

Up To 250MB Back-up, External Plugs Into Parallel Port.

**$299**

#1948851

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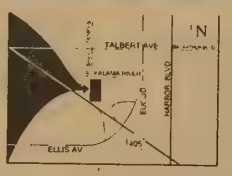


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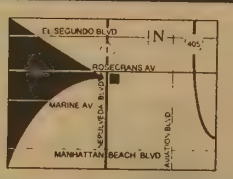


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# CD-ROM DRIVES AND SPEAKERS

## TEAC SuperQuad 4X Quad Speed CD-ROM Drive

- 600 KB/S Transfer Rate
- 195ms Access Time
- AT Interface and Cable
- SuperQuad 4X

CD-55A
#1954528

**$389**

## Philips INTERNAL DUAL-SPEED CD-ROM DRIVE

- 352KB/S Transfer
- 325msec Access
- Interface card and cable included

CM206-10
#1953103

**$114.99**

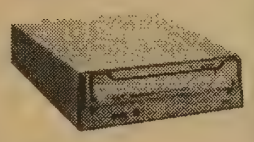
## DOUBLE-SPEED SCSI CD-ROM DRIVE

- 280ms Access Time
- 300 KB/S Transfer Rate • 256K Buffer Size
- CD-ROM XA, Photo CD
- SCSI-2 Internal Drive
- CDR-H93

#1928903

**$139**

## NEC DOUBLE SPEED SCSI CD-ROM

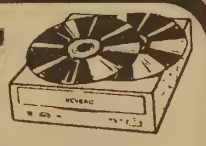


- 280 ms Access Time
- 300 KB/S Transfer Rate

84 JD
#1945478

**$158**

## "EDUCATOR" COLLECTION



### 15 CD SOFTWARE TITLES

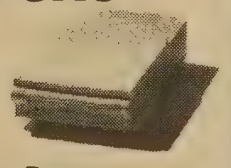
Internal • Double Speed 320ms access time, 300KB/S data transfer rate • Multisession, Photo CD ready Cable, Mounting hardware, and installation video.

CDD24
#1916942

**$249.99**

REVEAL COMPUTER PRODUCTS

## MULTISPIN 3Xe EXTERNAL CD-ROM



450KB/sec Transfer Rate • 195ms Access Time
256K Cache • Photo CD Compatible
Two Year Warranty

CDR-600
#1839180

MultiSpin CD-ROM READER
NEC

**$459**

## CREATIVE MULTIMEDIA SPEAKERS SBS-300

CREATIVE LABS, INC.

Enhance your multimedia experience. Provides endless hours of deep acoustic audio reproduction. Includes 14v DC power supply.

#1829062

**$99.99**

## Labtec CD-I SPEAKERS

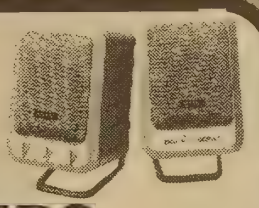
- Shielded Computer Speakers
- Works with Sound Cards that have 3.5mm jacks
- 3.6 Watts x 2

CD-1
#1945331

**$11.99**

REVEAL COMPUTER PRODUCTS

## RS320 SPEAKERS



- 10 wattsx2
- Bass, Treble, volume controls
- AC adapter
- Speaker stand

#1922398

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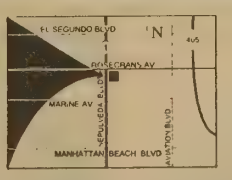


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## 3.5" DS/HD HI-DENSITY DISKETTES $7.49

BOX OF TEN
#121327

### 3.5" DS/HD IBM FORMATTED DISKETTES

BOX OF TEN
#1500329

$7.99

### 3.5" DS/DD DISKETTES

BOX OF TEN
#121288

$6.49

### 3.5" DS/DD IBM FORMATTED DISKETTES

BOX OF TEN
#1500318

$6.99

## 5.25" DS/HD HI-DENSITY DISKETTES $6.99

BOX OF TEN
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### 5.25" DS/HD IBM FORMATTED DISKETTES

BOX OF TEN
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BOX OF TEN
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### 3M RE-WRITABLE 3.5" MAGNETO-OPTICAL MEDIA 128MB $44.99

#1661352

### 3M 21MB FLOPTICAL FOR 21MB FLOPTICAL DRIVES 5-DISK PACK $89.95

#1661341

### 3M 8" DS/DD DISKETTES SOFT SECTORED $26.99

#1611542

## MAC DISKETTES

### 3.5" DS/HD MACINTOSH FORMATTED DISKETTES

BOX OF TEN
#1563308

$8.49

### 3.5" DS/DD MACINTOSH FORMATTED DISKETTES

BOX OF TEN
#1563294

$6.99

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|---|---|---|---|
| DC 2120 Unformatted #1490750 | $14.99 | DC 2000 Kappamat #122422 | $19.49 |
| DC 2120 Ximat #1551381 | $17.49 | DC 2060 Kappamat #1551417 | $25.99 |
| DC 2120 Unformatted 2-Pack #1786158 | $29.97 | DC 2060 Thetamat #1662180 | $21.99 |
| DC 2120 Ximat 2-Pack #1786169 | $34.95 | DC 2080 Ximat #1611531 | $15.99 |
| HS-8/112 8mm #1620968 | $10.49 | DC 2080 Rhomat #1439898 | $17.49 |
| HS-4/90 4mm #1865679 | $12.99 | DC 6150 #1405482 | $15.49 |
| DC 2120 Rhomat #1490761 | $19.99 | DC 6250 #1490819 | $19.99 |
| | | DC 6525 #1490820 | $27.99 |

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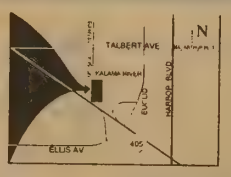


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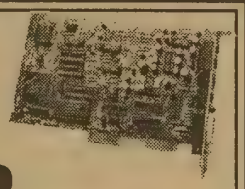
CREATIVE LABS, INC.



## SOUND BLASTER SOUND CARD

- 11 Voices FM Music
- Joystick Port
- Midi Interface
- Volume Control
- Cable

**$39.99**

#1934566

## CALYPSO AUDIO MAGICIAN PLUS SOUND CARD

**16-BIT PERFORMANCE AT AN 8-BIT PRICE**
**SOUND BLASTER & AD-LIB COMPATIBLE**

Microphone Jack • Game Port • Audio Recorder Audio Reminder Talking Clock • Talking Calculator • Audio Clip Library • Timer and Stopwatch

**$39.99**

#1811784

## QuickShot® by Bondwell SOUND MACHINE

Sound Blaster Chipset Sound Board • Speakers and Joystick

**$49.99**

QS-803
#1750658

## AUDIO MAGICIAN 16CD

16 Bit Sound Card • with Panasonic, Sony, Mitsumi, Wearnes CD-ROM Interfaces • Stereo Sound Built-In 5 Channel Mixer

**$79.99**

#1917725

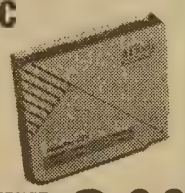
## PRO PC/TV PLUS PORTABLE PC-TO-TV ENCODER

- External VGA-to NTSC converter (VGA to TV/videotape) for your laptop or desktop PC
- Drives both VGA and TV simultaneously
- S-Video (SVHS) output for high quality video recordings/displays
- Anti-flicker circuit for sharp Windows display

AITech **$189.99**

#1821433

## MULTIPRO CTV
**EXTERNAL VGA-TO-VIDEO/TV ENCODER FOR YOUR PC OR MACINTOSH**



- Record, edit or playback audio and video from your PC or Macintosh video output.
- Easy to use and easy to install-just plug and paly
- Supports up to 16.7 million (24-bit) colors with standard VGA (640x480) resolution.
- Dual display support cability (VGA monitor and TV/VCR simultaneously).

AITech **$279.99**

#1906835

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## PERSONAL VIDEO STUDIO

**PC Video Production Studio with built-in sound, video & computer graphics sequencer.**

- Video Overlay/Titler
- Auto Production
- VGA/NTSC Preview Windows
- Transitions
- Chroma/Luma Special Effects

**$399**

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## Digispeech PORTABLE SOUND PLUS

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- External 16-bit Sound Card and Speaker Unit
- Stereo or Mono Playback at 16-bits
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- Windows 3.1 Compatible
- Connects to Parallel Port
- Advanced DSP Technology

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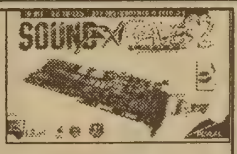

- Ensonig Soundscape Wave Table Chipset
- with Mitsumi, Panasonic, and Sony Interface

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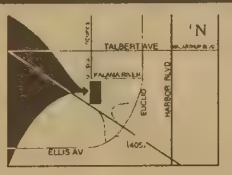


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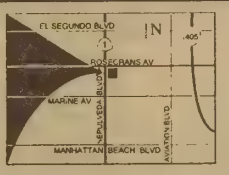


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- Double-speed internal CD-ROM
- 16 Bit Stereo Sound Card
- Pair of stereo speakers (RS250)
- Headphones, cables, and installation video

**6 Software Titles!**

**$298**

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## MV 1100 MULTIMEDIA KIT

- Double Speed Sanyo CD-ROM Drive with a 250ms access time
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- Exciting CD-ROM software

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- Orchid CDS-3110 CD-ROM Drive
- Kodak Multisession Photo CD Ready
- DSP with Wavetable Synthesis
- 1MB of Wavetables Samples
- "SoundWave 32" 16-bit CD Quality Sound Card
- MPC CD-ROM Compatible
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ORCHID

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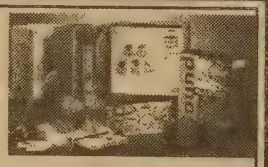

- Sound Blaster 16 sound card
- Double-Speed CD-ROM
- Speakers, Microphone
- Microsoft™ Office Professional, Microsoft™ Encarta, Microsoft™ Win SoundSystem

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## DOUBLE-SPEED CD-ROM 16-BIT SOUND CARD MULTIMEDIA KIT

- 18 Months Warranty
- Philips Double-Speed CD-ROM Drive
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Sun Moon Star

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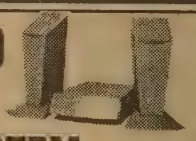

- 16-bit stereo Recording and Playback (16-bit linear CODEC)
- Sample frequency from 4 to 44.1KHz
- Microphone, external line-in, and CD-ROM audio inputs allow for the highest CD-quality recordings from a variety of sources
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- Five CD-ROM Titles

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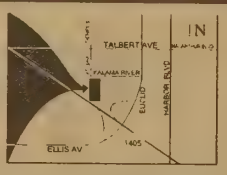


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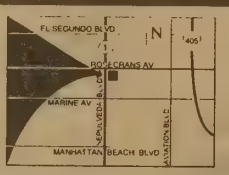


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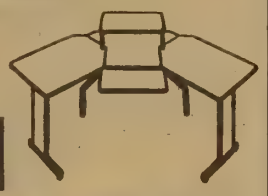
Set up angled or straight
25-5/8" x 60" x 29-1/2"
Color:
Light Grey/Bankers Grey
Model 20817
#1955448



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18" X 21" X 25"
Color: Medium Grey
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Color: Light Grey/Bankers Grey
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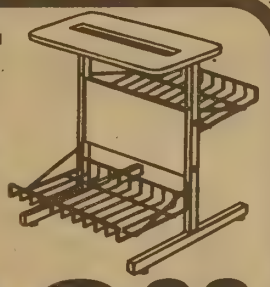

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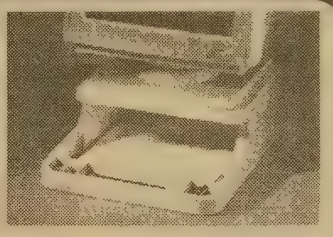

- Regains work space by lifting monitor off desktop
- Handy tray stores papers, books and small items

6830
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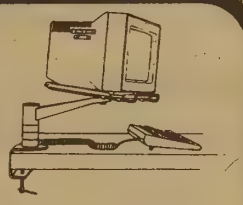
## MONITOR ARM



Holds Monitors with a 12" x 12" separation up to 40 lbs. Built-in chrome handle extends to hold 9 1/4" wide keyboard.
Made of platinum colored steel • 8 lbs
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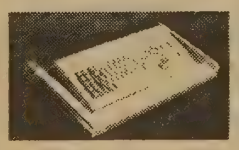
## UNDERDESK KEYBOARD DRAWER



Mounts underneath work surface to reduce desktop clutter. Holds most regular enhanced keyboards.
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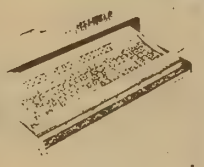
## KEYBOARD DRAWER



Keyboard slides under the desk, table or workstation to regain valuable work space.
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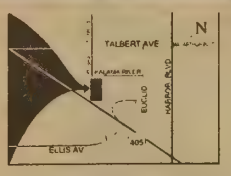


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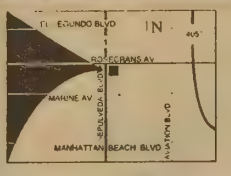


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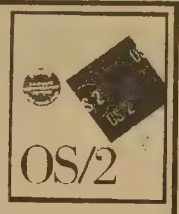


OS/2 for Windows brings a new level of power and performance to your PC. OS/2 for Windows can exploit your hardware in ways it simply couldn't before. Start to explore the object orientred world of the OS/2 workspace Shell and discover how easy and fun true "drag and drop" computing can be.

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CD-ROM
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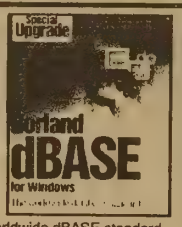
## BORLAND dBase 5.0 Upgrade for Windows™




dBase 5.0 for Windows, the next generation of the worldwide dBASE standard, is the best way to build Windows database application. It's the only product that moves you to Windows and client/server in a single step—without sacrificing any existing data, knowledge or applications you've created with dBASE.

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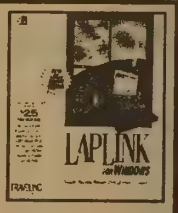


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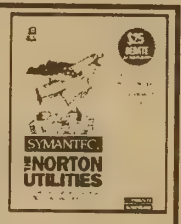


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- Improved Norton Disk Doctor now operates in the background continuously protecting files.
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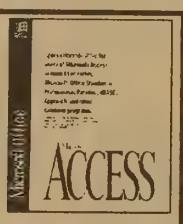


For user of Microsoft Accsess version 1.1 or earlier, Microsoft Office Standard or Professional, Paradox, dBase, Approach, and other database programs.

Proof of Ownership Required.

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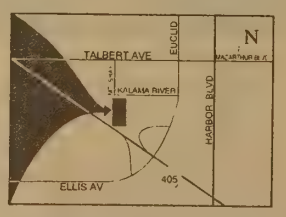


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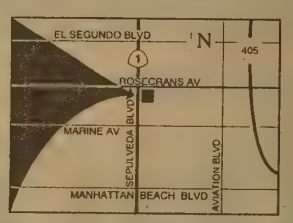


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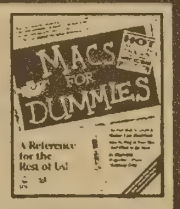

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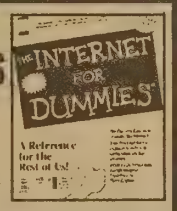

The Internet is the fastest growing source of information and services for millions of computer users. For novice users unsure how to take advantage of the world's biggest computer network, The Internet For Dummies provides a vital reference that'll enable you to swap e-mail, conversation, software, and more across the globe!

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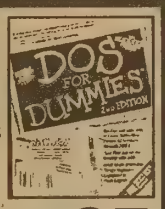

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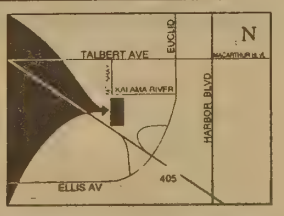


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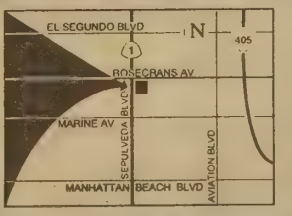


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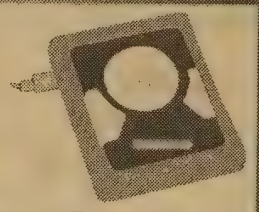

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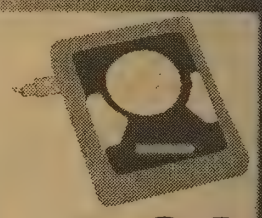

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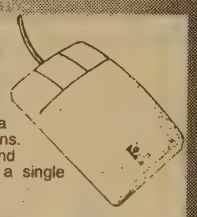

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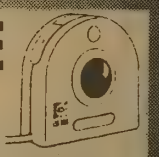

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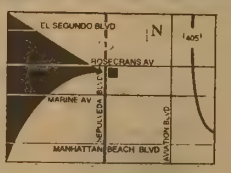


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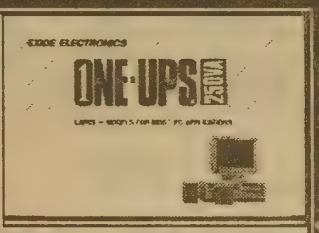


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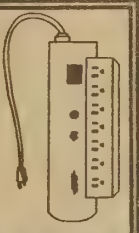

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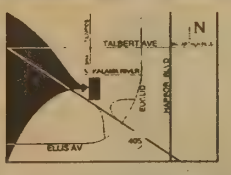


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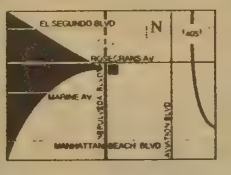


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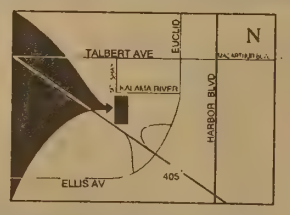


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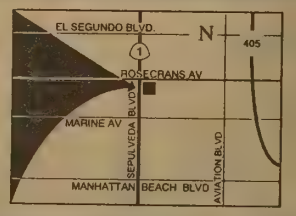


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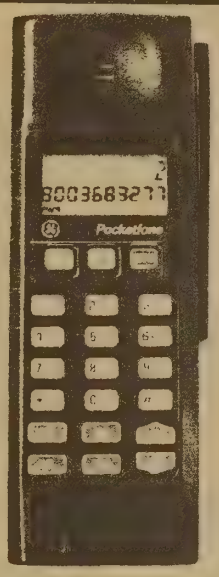

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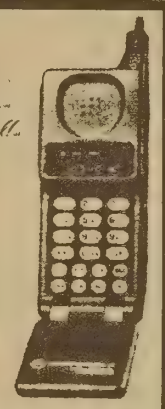

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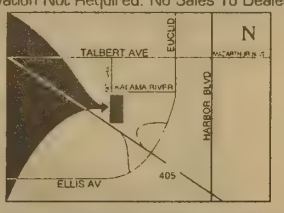


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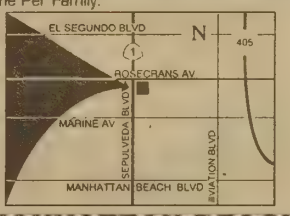


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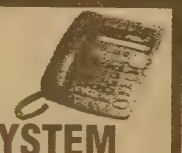

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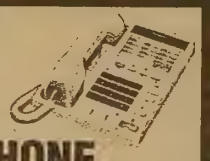

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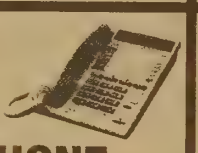


### TWO LINE SPEAKERPHONE

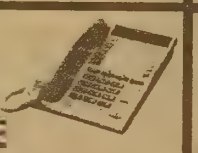
**WITH LCD DISPLAY**

From Panasonic comes this fully featured 2-line speakerphone with LCD display, 3-way conference call, volume control for speaker and handset, 24-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

**$89.95**

MODEL KX-T3175
#1745122

Panasonic



### THREE LINE SPEAKERPHONE

**WITH LCD DISPLAY**

From Panasonic comes this fully featured 3-line speakerphone with LCD display, 3-way conference call, volume control for speaker and handset, 48-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

**$169.95**

MODEL KX-T3185
#1768039

## 10 CHANNEL CORDLESS PHONES

Panasonic

### 10 CHANNEL AUTOSCAN CORDLESS PHONE

Panasonic's newest cordless phone comes equipped with a retractable flexible rubber antenna, sound charger technology, which helps filter out background noise resulting in enhanced sound quality, and 1-way paging between the base and handset. An excellent value at only...

**$79.95**

MODEL KX-T3850
#1764839

Panasonic

### 10 CHANNEL CORDLESS PHONE

**WITH QUICK CHARGE & SECURE GUARD SYSTEM**

Panasonic has developed the latest in cordless technology by incorporating a Quick Charge system that will enable you to recharge its battery in one hour providing 7-day standby or 3 hours providing 21-day standby! The Secure guard system can help keep your conversations private and help prevent eaves-dropping scanners or baby monitors. Other features include one paging, 10 number memory, last number redial, flash, auto security code settings and much more for only...

**$118.95**

MODEL KX-T3940
#1820915

Panasonic

### 10 CHANNEL AUTOSCAN CORDLESS DUAL KEYPAD SPEAKERPHONE

**WITH SECURE GUARD VOICE SCRAMBLING**

Panasonic's comes equipped with secure guard which scrambles your voice when others try to listen in on your conversations with other cordless phones, radios or even scanners! Other features include quick-charge technology enabling to fully charge the battery in only 3 hours for 21 day standby, 2-way paging, intercom, 10 number memory, high gain antenna, and much more. All for only...

**$159.95**

MODEL KX-T3965
#1886160

Panasonic

### 2-LINE 10 CHANNEL CORDLESS PHONE

**WITH SPEAKERPHONE**

The KX-T3980 is one of the most versital phones Panasonic has ever developed! When you combine the convenience of a cordless phone with the flexibility of a 2-line capability along with speakerphone, 3-way conference, 2-way page, and auto intercom, it all adds up to a value too good to pass up!

**$179.95**

MODEL KX-T3980
#1671595

## FAX MACHINES

Panasonic

### FAX MACHINE

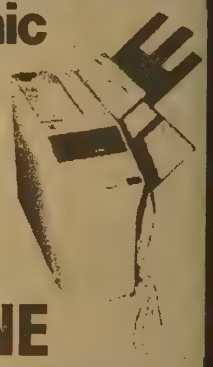
**WITH PAPER CUTTER AND SPEAKERPHONE**

Panasonic line of fully featured fax machines start with this compact model which includes 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll, 15 page document feeder, distinctive ring, delayed transmission, paper save mode, telephone directory with alpha-search, 12 station one-touch with 28 station speed dialing, and much more. All for just...

**$299**

MODEL KX-F550
#1944271

Panasonic



### PLAIN PAPER FAX MACHINE

**WITH 20 PAGE MEMORY**

The ultimate plain paper fax from Panasonic features a jumbo LCD display, 70 page paper cassette, adjustable letter/legal tray, 32 level halftones, polling, activity reporting, 20 page document feeder, broadcasting to 128 locations, fax transfer, enlargement and reduction copier functions, fax/tel switch, 28-station one-touch dialer, 100-station speed dialer, telephone directory with alpha-search, and much more! Now just.....

**$879**

MODEL KX-F3000
#1850626

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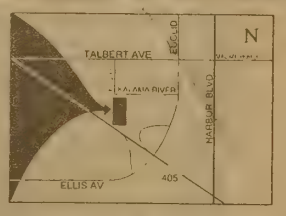


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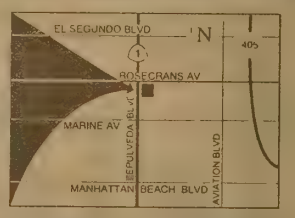


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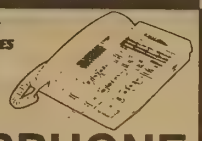
## SPEAKERPHONES

BELL Phones BY NORTHWESTERN BELL PHONES



### SPEAKERPHONE
**WITH 13 NUMBER MEMORY**

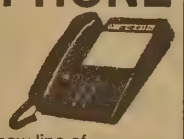
The convenience of a handsfree speakerphone allows you to do other tasks while carrying on a conversation on the phone. Features include 13 number memory, auto redial, mute, flash, and more. An excellent addition to any home or office at only...

**$19.99**

MODEL 4350
#1917518

---

SONY.



### SPEAKERPHONE
**WITH 32 NUMBER MEMORY**

From the leader in cordless phone technology comes a new line of feature phones. This unit has a crystal clear speakerphone, 32 number memory and more!

**$49.99**

MODEL IT-D100
#1516878

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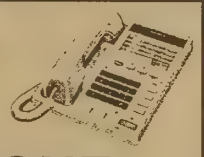
Panasonic



### LCD READOUT SPEAKERPHONE

This outstanding value from Panasonic offers a 12-digit LCD readout for phone number, clock, call timer(minutes and seconds), and operating modes. Perfect for the home or office at only...

**$69.95**

MODEL KX-T2365
#163665

---

SONY.

### 2-LINE FEATURE PHONE
**WITH SPEAKERPHONE**

Phones with 2-line operation are relatively common, but this phone offers a distinctive ring for each line! The LCD indicator will tell you the number dialed and the time. Now only..

**$79.95**

MODEL IT-D250
#1516904

## MULTI-LINE PHONES

BELL Phones BY NORTHWESTERN BELL PHONES

### TWO LINE PHONE

Perfect for the home office with multi-line needs, this 2-line phone from Northwestern Bell features line-in-use LEDs, 3-way conferencing, 15 number memory, hold, flash, pause, and ringer controls. An excellent value at...

**$39.99**

MODEL
Easytouch 2202
#1890905

---

Panasonic



### TWO LINE PHONE

A two line phone doesn't have to cost a fortune. Panasonic has the low cost answer for you. This unit has a convenient auto dialer, conference calling and much more!

**$69.95**

MODEL KX-T3110
#1505313

---

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### FOUR LINE SPEAKERPHONE

This deluxe four-line speakerphone is capable of handling up to four lines with a maximum of 16 stations. Its convenient 32 number one-touch telephone memory, along with all station page, intercom, call transfer, busy redial, flash and much more make this the perfect addition to any home or office at just.....

**$149.95**

MODEL 2-9450
#1768637

---

AT&T

### 3-LINE SPEAKERPHONE

AT&T's multi-functional centrex compatible 3-line speakerphone comes equipped with page, intercom, 3-way conference, LCD display, 40 number memory, auto line selection, hold, do not disturb function, auto-redial, mute, programmable pause, call transfer, flash, seperate ringer controls, and more, all for only.....

**$179.95**

MODEL 843
#1853892

## ALL DIGITAL ANSWERING MACHINES

AT&T

### ALL DIGITAL ANSWERING MACHINE

This AT&T answering system utilizes tapeless digital technology to ensure consistent recording quality over the life of the system. The convenience of new message playback, outgoing message bypass, remote system turn on or off and remote message recording makes this an excellent value at only...

**$69.95**

MODEL 1710
#1853906

---

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### ALL DIGITAL ANSWERING MACHINE
**WITH THREE MAIL BOXES**

With three mailboxes to choose from, members of the household can have messages stored for them in their own mailbox! The all digital capability eliminates the need for moving parts and allows for instant playback of incoming messages-no need to wait for a tape to rewind or fast forward! Other features include voice time/day stamp, two outgoing messages, digital counter, selective message erase and much more for only...

**$89.95**

MODEL 2-9876
#1839261

---

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GE. We bring good things to life

### TELEPHONE
**WITH ALL DIGITAL ANSWERING SYSTEM**

G.E.'s newest telephone answering machine offers 10 minutes of record time digital message counter, voice time/day stamp, auto disconnect, selective save message, and 12 number memory, an excellent investment at...

**$89.95**

MODEL 2-9831
#1743555

---

AT&T

### 10 CHANNEL CORDLESS SPEAKERPHONE
**WITH 26 MINUTE CAPACITY ALL DIGITAL ANSWERING MACHINE**

From AT&T the leaders in telecommunication technology comes this state-of-the-art 10 channel cordless speakerphone with 26 minute capacity All Digital Answering Machine. With features that include 2-Way Page and Intercom, Hold, Last Number Redial, Time/Day Stamp, Multiple Outgoing Announcements, Voice Prompts, Digital LED Message Display, Call Intercept, Call Screening, and much more, AT&T has developed an invaluable addition to any home or office for just..

**$249.95**

MODEL 5650
#1919543

## COPIERS

SHARP

### PORTABLE COPIER

This Sharp copier weighs in at just 14.8 lbs. and is amazingly compact and lightweight, making it easy to be carried or stored in a small place. Features include auto exposure control, auto start function, auto power shut-off mode, which completely cuts the power approximately 90seconds after you finished copying. An excellent value at only.....

**$259**

MODEL Z-20
#1885620

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XEROX

### LETTER /LEGAL COPIER

Don't settle for a copy when you can have the original... Xerox. Xerox is so confident in the quality and reliability of its copiers that it offers an exclusive 3 year warranty on all its copiers. This model offers a paper tray that stacks 40 sheets, a built-in carrying handle and removable storable paper trays, multi-copy capability which can be set from 1 to 9 copies or "C" for continuous up to 20 copies, and automatic exposure which scans documents for degrees of lightness or darkness to determining the appropriate exposure setting. An invaluable addition to any home office. At only...

**$479**

MODEL 5222
#1886425

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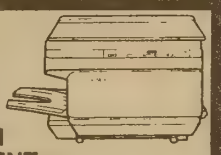
XEROX



### COPIER
**WITH REDUCTION AND ENLARGEMENT**

If you're looking for versatility and premium performance in a copier your search is over! Xerox has designed a copier that incorporates reduction/enlargement technology enabling you to reduce a copy 75% and 95%, and enlarge to 124%, a 250 sheet paper tray which adjusts to hold memo to letter to legal size paper, built-in automatic exposure which scans documents for degrees of lightness or darkness to determine the appropriate exposure setting, multi-copy capability of 1to 50 copies, letter and legal size copying, and manual bypass, all backed by the experts at team Xerox. Now just...

**$779**

MODEL 5009RE
#1706109

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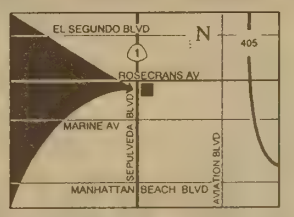


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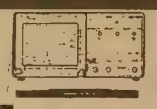
Tektronix



## 100MHz DIGITAL STORAGE OSCILLOSCOPE

With the introduction of the TDS 320, Tektronix redefines the low-cost digital oscilloscope. By sampling the signal at five times the analog bandwidth (500 mega samples per second on both channels simultaneously), you can be assured of true acquisitions, free from aliasing or other digital sampling effects. TDS 320 is the only scope in its class that can reliably acquire high speed transient or single-shot events to its full bandwidth. The TDS 320 has Dot, Dot Accumulate, Vector, and Vector Accumulate display modes—another advantage over the competiton.

**$2895**

Model
TDS 320
#1878446

Tektronix

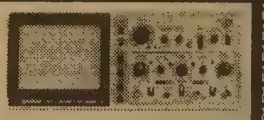
## 100MHz ANALOG 2 CHANNEL OSCILLOSCOPE

THE TAS 465 brings an advanced level of power and reliability to general purpose scopes. It brings leading edge innovation to low-cost analog scopes with comprehensive features. Comprehensive Video Triggering simplifies triggering on complex video waveforms. With line or field (odd, even, or both) composite video selections and positive or negative sync, you can cleanly trigger on any NTSC, PAL, or SECAM video signal. The scope's dual time base lets you zoom in on any portion of a waveform for closer examination. Auto Setup instantly delivers meaningful waveforms. Pressing the AUTOSET button automatically adjusts the horizontal, vertical, and triggering controls so that a stable signal is displayed

**$1995**

Model
TAS 465
#1823505

HITACHI



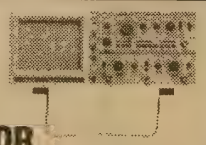
## 50MHz OSCILLOSCOPE

With Single Time Base and- High Resolution CRT. The usefulness of Hitachi scopes is extended to cover an array of new measurement applications.
2 channel • 6 inch screen
3 Year Warranty.

**$995**

Model V-522
#1746248

GoldStar



## 20MHz SCOPE W/BUILT-IN FUNCTION GENERATOR

1MHz Function Generator with three kinds of waveforms is available with 50ohm output and TTL Pulse. Two channels-single time base. Ideal for education applications. 1MHz function generator built-in this 20MHz, two channel scope. Sine, Square, Triangle and TTL Pulse output waveforms.

**$469**

Model
OS-902G
#1734771

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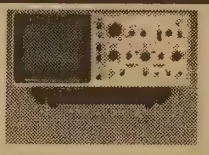


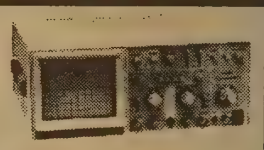
## 20MHz OSCILLOSCOPE

This lightweight, slim-line scope has become the standard of high performance. Hitachi scopes have earned acclaim from field-serving and maintenance personnel worldwide.
• 2 Channel, Single Time Base
• 3 Year Warranty

**$419**

Model V-212
#1746237

BK PRECISION
MAXTEC INTERNATIONAL CORP.



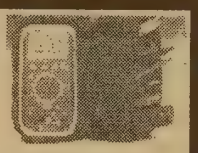
## 20MHz DUAL-TRACE OSCILLOSCOPE

Dual or Single Trace Operation+1mV/DIV Sensitivity 20MHz Response at a true 3DB Auto/Norm triggered sweep operation with AC TVH TVV and the coupling x10 magnifier • Bright, sharp rectangular CRT with P3331 phosphor X-Y operation

**$389**

Model BK-2120
#155365

S.M.S.



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- AC Voltmeter
- Dwell Angle
- DC Current
- Temperature
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- Aud. Continuity Tester
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10 meg OHM impedance. Max./Min. Average Memory Record. Data Hold. Auto Sleep and Power Off. 2 Year Warranty. Temp. Probe. Alligator Test Leads. Inductive Pickup Included.

**$269**

Model 105
#1929177

INSTEK

## 2MHz FUNCTION GENERATOR WITH 10MHz FREQUENCY COUNTER

- Three instruments in one: Function Generator, Pulse Generator and Frequency Counter
- Frequency Range from 0.02Hz to 2MHz
- Built-In 6 Digit Counter with INT/EXT Function
- Variable DC offset control • 1000:1 Tuning Range
- Sine, Triangle, Square Waveform, TTL Pulse and CMOS output
- 10MHz Frequency Counter

**$269**

Model FG-8016G
#1919428

Tektronix

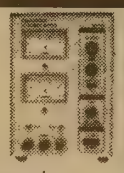
## 3.75 DIGIT DMM 4000 COUNT, TRUE RMS

- .1% Basic DC accuracy
- Meaures Capacitance and Frequency with Data Hold,
- Compare Mode, Memory Offset,
- Auto-ranging, Auto Power Off
- plus more!

**$219**

Model DM 254
#1823653

GoldStar



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0-30 volts @ 3 amps Continuously Variable. Rugged Construction with Constant Current and Constant Voltage Operation. Overload protection circuit. Output Polarity: Positive and Negative.
Low Ripple Voltage, Less Than 2mV p-p.

**$209**

Model
GP-303
#1864678

BK PRECISION
MAXTEC INTERNATIONAL CORP.

## 100MHz PORTABLE FREQUENCY COUNTER

5Hz to 100Mhz Range • 8 Digit LED Display
Selectable 1.0 Sec/0.1 Sec Gate Times
Low Pass Filter • Battery or AC Power
Charger/AC adapter Included

**$189**

Model
BK-1803C
#155339

TRIPLETT CORPORATION

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- Manual Range
- Diode Test
- Continuity Test
- Battery Tester
- Transistor Checker

**$46.99**

Model 2202
#1883938

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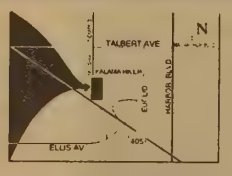


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- #2 Philip • 1/4" Nut Driver
- #1 Philip • 9/32" Slotted
- 5/16" Nut Driver
- 3/16" Slotted

#1950306

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## LUMILITE WATERPROOF FLASHLIGHT COMBO

One 2AA cell and one 2C cell batteries included.
p/n 939475
#1921331

**$1.99***

* After $3 mail-in rebate. In-store price $4.99.

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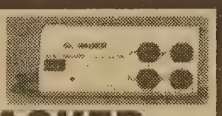

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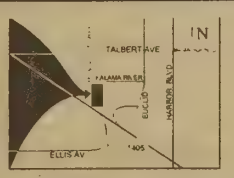


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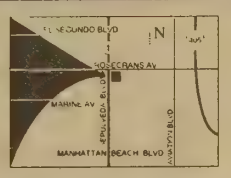


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Multi & Media beyond

MULTIMEDIA 101

# Hardware? In Multimedia 101?

## In Search of the Perfect Processor, Part 1 of 2

**It is the best of times,** it is the worst of times...to buy a multimedia-capable computer.

Or, to PowerPC, or not to PowerPC: that is the question.

Attentive readers may have observed that this column has never dealt with any of the questions that surround hardware. I view the various boxes that make interactive multimedia possible as some of the wonders of the modern age—but I also take them for granted; I'm surprised when I find out that there are things they still can't do, at least at an affordable price. The truth is that I'm not a tech-type, my eyes glaze and my mind grows numb when I read long lists of digits interspersed with TLAs and apparently random letters that don't make up English words or sentences. I'm happy enough to grasp the general concepts, and, while I attempt to keep vaguely current with the features available, I freely confess that hardware details just aren't my cup of tea. Multimedia's content, its concepts, and its design are the juice for me.

However, my semi-trusty old SE recently became untrusty and I am currently having my face rubbed in the realities of hardware purchase. It's not a pretty picture, either for me personally or, by extension, the industry and perhaps even society as a whole.

### THE WORLD'S OLDEST DEBATE: MAC VS. DOS

Call me a Mac slut if you wish, but I haven't seriously considered a DOS-based machine. I had fallen prey to the myth that Macs were no longer much more expensive than IBM clones. That in conjunction with my general comfort with Macs and my desire not to have to type G:\FCKYRSLFBLGTES or whatever it is whenever I want to persuade some piece of Windows software to do its job had pretty much set me on the path to a Mac.

After inspecting some of the many advertisements in this very magazine I can no longer subscribe to the myth about the closeness in price; the two breeds may not be as far apart as they once were, but obviously I could buy a clone for perhaps two-thirds of what a Mac will set me back.

Other reasons for the supremacy of Macs in my mind include the admittedly anecdotal difficulties of

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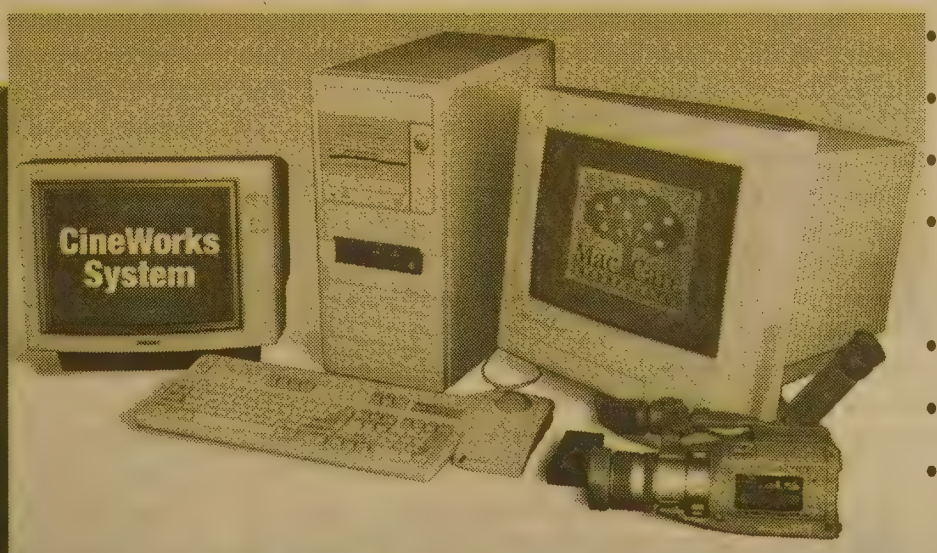


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persuading all the disparate components of clones, particularly the sound cards, to work together—when audience members at the Art Teco conference asked Marc Canter about sound problems, he was typically blunt with "Get a Mac!" It is also generally acknowledged in the graphics and video fields that Macs are far more suited to the demands of creative work.

Beyond this, there are a couple of personal aesthetic reasons for staying with the Cupertino computer: firstly, Windows screens are some of the ugliest things on earth—I can't stand the way the type looks, and typically video is even worse than on a Mac; secondly, the boxes the computers come in are also extraordinarily ugly. Macintoshes could use some improvements of their own, but generally their lines are relatively sleek without the clunky awkward contours that make the clones look like they belong in another decade—or perhaps in another hemisphere, one of the former states of the Soviet Union. It might sound trivial, but one of the ways a computer must function is as a piece of furniture.

## PERFORMA TIME

So, having ruled out most of what's available, I set about the absolutely ghastly process of deciding what machine I wanted, what machine I could afford, and finding a place that would sell me such a machine.

The first question everyone says should be answered is, "What are you going to use the machine for?" I'm a free-lance writer, I review music and CD-ROMs, I mess around a little online, I'd like to do more of all these things, and find a way to actually make a living. Thus I do not actually have very great computing needs—a basic home-office package with CD-ROM would in many ways fit my needs. As a reviewer of consumer items, one of my inclinations was to play the role by going the "boombox" route and getting a Performa from Circuit City.

As I write, I could pick up a Performa 575 there for about $1900. It's an all-in-one machine with 5MB RAM, 250 MB hard disk, nice screen, double-speed CD-ROM drive complete with keyboard, modem, and software package. It has stereo speakers, but they're not really adequate. So, tossing in about $180 for Apple speakers (or considerably less for another manufacturer's) and about $300 for a StyleWriter, I could be out of there for under $2400 plus tax. Really not a bad deal, and it may yet be what I do—but now we get to the hard part of comparing apples to apples and figuring out how bananas fit in.

There's a very close alternative at Whole Earth Access, which has the Performa 630 available also for $1900. What are the differences? Here's the frustration—it's impossible to tell exactly what the differences are. No two stores list the specs in the same way, and, to date, I have found no one who really knows what's in all of Apple's various boxes either online, amongst friends, or in any publication. Ask Apple? You must be joking—I'm trying to conduct this search with some degree of efficiency and anonymity, i.e. no calling the publicists. This is undercover computer buying.

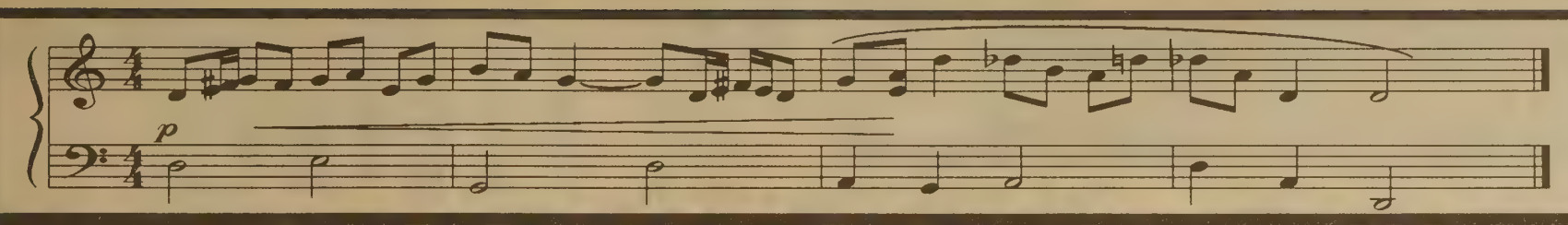
The Performa 630 at Whole Earth has two distinct differences from the 575 at Circuit City. It has 3 more MBs of RAM but not such a good monitor. While the spec sheet doesn't admit it, the sound is only 8-bit while Circuit City lists the 575's sound as 16-bit. Then there are fuzzy differences such as the included software and just what fax-modem is included in the box. Consider that Whole Earth also has 630s with a 350MB hard disk and the TV option for about $2400. This is a roughly comparable value assuming that one wants the TV option (and I do, I do!). Are you confused yet? It's my money I'm trying to spend as wisely as possible and you can bet that I'm nearly round the twist already and we've barely started yet!

## THE VULGAR WORLD OF COMMERCE

A few words about computer salesmen and stores (and I have yet to run into any computer saleswomen): theirs is a tough job, not dissimilar to what car salesmen have to deal with—lots of tire-kickers, insane product lines with myriad options to be considered, and they work on commission. Unlike the situation at the car dealer though, there are never enough computer salesmen; they're always fielding questions from several customers at once, so it's hard to catch one's attention. In addition, the machines they're trying to sell often don't run (imagine buying a car without driving it!). Occasionally, they appear to have given up and are just basically rude and indifferent to prospective customers; at best, they're harried and distracted. I found this to be the case at both large chains and small boutiques.

An ancillary gripe is that once you've been hooked by a particular salesman, none of the others will talk to you beyond the barest formalities. Even if one is temporarily free by some strange quirk of fate and you ask only a simple question, he'll generally go and fetch "your" salesman rather than answering you directly. It all adds up to an irritating experience and quite a waste of time. I know they're working on thin margins and commission; I know that in many cases they know little beyond what can be gleaned from a spec sheet; I know that shopping is America's national pastime; but going to a computer store feels like participating in an endurance sport. It certainly wouldn't qualify as a thrill sport.

**There are all sorts of PREDICTIONS about how everyone will have a computer in the FUTURE, at least everyone who counts, but I'd GUESS that a lot of potential customers will find SOMETHING ELSE to do with their time, energy, and money unless the buying EXPERIENCE becomes more pleasurable and reliable.**



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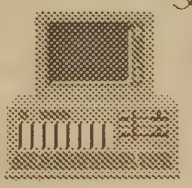

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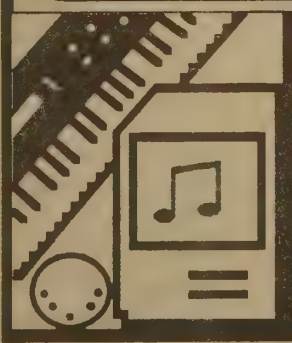

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# MultiMedia & beyond

I emphasize this because quite honestly if I didn't really, really, really need a computer for work I would likely have turned around and walked out of the first store I went into and never returned. Occasionally, I still daydream about finding some other occupation where I could blow the whole industry off. There are all sorts of predictions about how everyone will have a computer in the future, at least everyone who counts, but I'd guess that a lot of potential customers will find something else to do with their time, energy, and money unless the buying experience becomes more pleasurable and reliable. As it is now, a customer goes through an ordeal and is then left wondering if they really got the best deal they could.

However, I did get two very good pieces of advice from salesmen—even if just plain financially impractical for me at this time. The first was to buy two computers! Working on commission sure works wonders, doesn't it? The other advice was to look very carefully both at what my future needs might be and the probable course of the future—in other words, buy the biggest, fastest, most adaptable machine possible. Salesmen—I love 'em.

## QUADRAS, POWERMACS & THE FUTURE

The frustating thing is that both pieces of advice actually fit the general direction my thoughts are leading me in. The Performas are probably fine little boombox machines—you can add more RAM and they're upgradable to PowerPC—but they only have 68LC040 processors, meaning that they have no FPU. Thus, if I ever want to do more than look at CD-ROMs and write reviews, if I want to really have the multimedia experience and create a little animation, do some sound work, or anything else that requires heavy computational processing, I'll be sitting around waiting for the machine to grind through the work. It seems very likely that I'll want to do that sort of project in the future, not only to entertain and inform you but also on a production basis.

Apple has two product lines with more powerful processors than the 68LC040; the Quadra and the PowerMac series. Apple now only makes two Quadras: the 605, with a 68LC040 processor so that's out of the running, and the 630, which has some intriguing features. In the PowerMac series, everything over the 6100/60 is way out of my price range, so that's easy for me—but, if you've got the budget and have professional requirements, the 7100/66 or the super-duper 8100/80 are without doubt what you should be looking at. All the difficulties of comparing differing amounts of RAM and sizes of hard disk experienced with the Performas are present at the low end of the Quadra versus PowerMac debate where I reside.

Essentially, my numbers came out to be about the same for either machine when I added up all the costs of the most intelligent options I could figure out—somewhere between $2400 and $2700 without a monitor or keyboard but including a CD-ROM drive. Surprisingly, the PowerMac was a little cheaper, but also less adaptable. Every option had a tradeoff in features or capability against the next option.

When I put in all the costs for either system, I got queasy about the total budget—it began to push $4000. I think this is way beyond what the mythical Joe or Jill Sixpack will spend on a computer, but if they don't spend that much they'll really only get a hobbled machine. Not having the monitors up for comparison doesn't make the decision making really any easier, because the process is profoundly complicated by assessing the

*continued on page 152*

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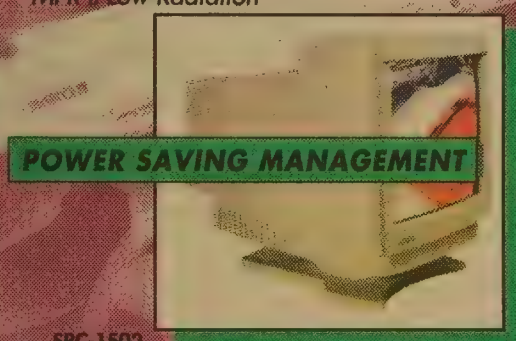


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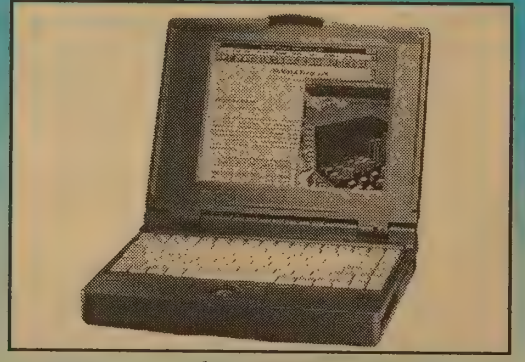

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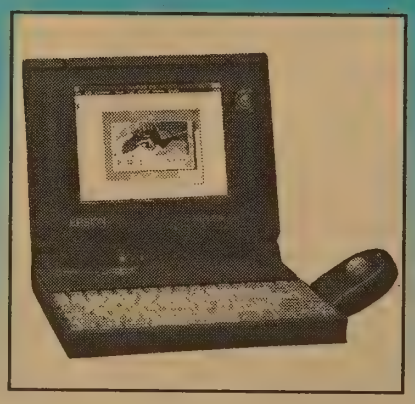

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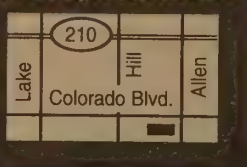

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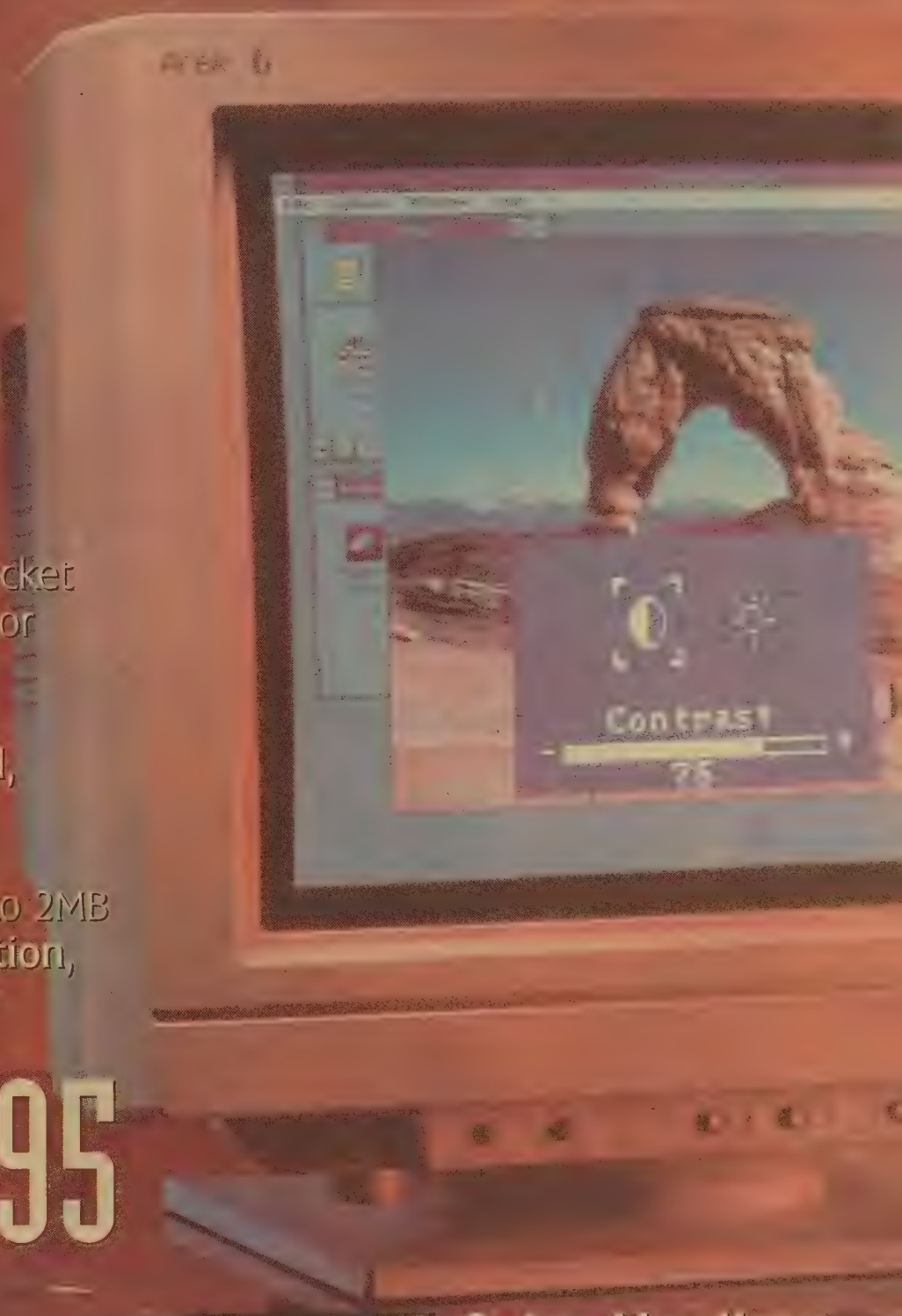


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# MultiMedia & beyond

*continued from page 148*

merits of the Quadra's 68040 processor against the PowerMac's 601 RISC processor.

In brief, the PowerMac will be much faster than the Quadra if it's running software designed for it—native applications. If the PowerMac is running software designed for older machines in emulation, it may be slower than the Quadra. Sure, at some time in the future, there'll be tons of native applications for the PowerMac and at the professional level the future is almost now. But I'm intending to review consumer CD-ROMs and it'll be awhile before those are native to PowerMacs, so for now they'll be running under emulation, which isn't very fair.

Using a PowerMac 6100/60 for most of the things I do will be a bit like flying to Sacramento on the Concorde, but ultimately they're cheaper and represent the future. Apple clearly expects to

**All the DIFFICULTIES of comparing differing amounts of RAM and sizes of hard disk experienced with the PERFORMAS are present at the low end of the Quadra VERSUS PowerMac DEBATE where I reside.**

move most of its customers to PowerPC at some time since just about every machine is emblazoned with "Upgradable to PowerPC."

It's an agonizing situation, and it's not helped by the fact that every time I look in another magazine or consult yet another expert I glean yet another tiny nugget of information that tips the scales in one direction or another. An example is what I just read in *Wired* about Apple using the PCI bus rather than the NuBus standard in its next generation of computers. I barely understand what that means, but it seems that perhaps the current PowerMacs won't be the leaders of the pack for so long. We all know that the price of progress is change, but I also know that I don't want to be stuck with a machine that is immediately outmoded.

Not only have I not come to a decision, but I'm becoming seduced by the charms of the PowerBook 520c and its portability. I've also been advised to look more closely at a used machine and consider third-party boards. I don't know what Mr. Sixpack will do, I wonder how the consumer market for multimedia will ever work out.

As the Terminator said, "I'll back." Next month, we'll have further retail adventures. ■

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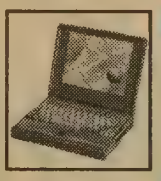

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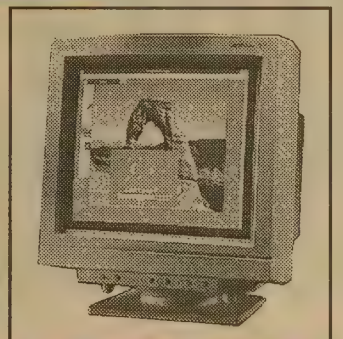

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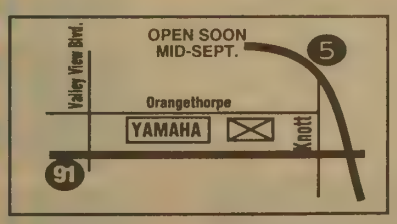


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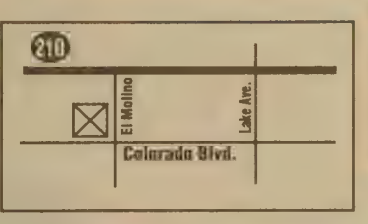

Multi & Media beyond

# Remembrance & Learning

## Multimedia Technology Adds A Participatory Dimension To The Simon Wiesenthal Center's Museum Of Tolerance

"Projecting to the end of the millennia," asks Rabbi Abraham Cooper, associate dean at the Simon Wiesenthal Center in Los Angeles, "why would anyone want to come into a museum dealing with the Holocaust and how could we make a message that was both true to history and also relevant to a museumgoer?"

Museums, as a repository of artifacts, can serve to keep the memory of a particular topic alive and accessible to a broad spectrum of people. When the Wiesenthal Center opened its first Holocaust Museum in Los Angeles in 1978, with 3200 sq. ft. it was the "largest museum in the English-speaking world devoted to the Holocaust," explains Rabbi Cooper. Students, researchers, and other interested individuals from around the world came to the museum to explore its extensive holdings of archival documents, books, photos, and oral histories on the Holocaust.

Although the Museum averaged close to forty thousand visitors a year and included an aggressive outreach program of bringing survivors and students together, by the middle of the 1980s the staff at the Center felt that the museum was becoming less and less effective. Compounding the issues of effectiveness was the acute awareness that in the years ahead there simply would not be any Holocaust survivors still alive to help guide visitors; to connect the larger historical situation with the experience of individuals and their families.

After much discussion and questioning how best to keep this museum "relevant to the museumgoer," the Wiesenthal Center decided to construct a new, much larger museum. The Beit Hashoah Museum of Tolerance opened in 1993. But rather than simply create more room to display more objects from the Holocaust, two important changes were made. The first was to incorporate computer-synchronized exhibits, interactive displays, videos, and a new Multimedia Learning Center. No longer would someone simply walk through the museum looking at static displays or read documents encased in glass. Rather, new high-tech museum installations would turn the passive visitor into an active participant, helping to make historical events more real and giving everyone greater flexibility as they learned more about the Holocaust.

BY MICHAEL ROBIN

### RESOURCES:

**The Simon Wiesenthal Center Museum of Tolerance**
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| **Microsoft Windows Sound System Compatible** | Yes | No | No |
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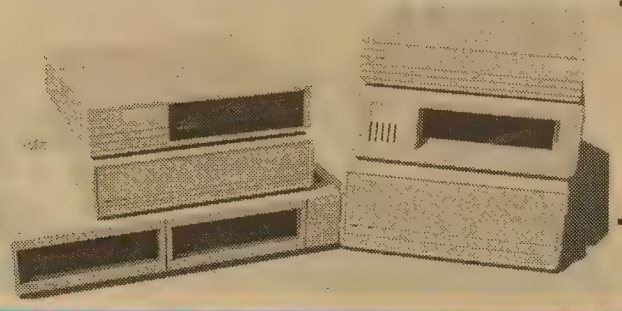

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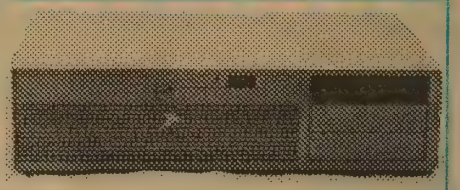

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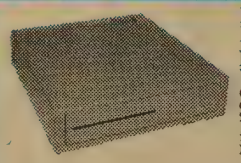

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# MultiMedia & beyond

The second step was to broaden the focus of the museum. Along with providing an understanding for the Holocaust—in both historic and contemporary context—the museum would include a section on Tolerance, challenging visitors to confront their own bigotry and racism.

## A VISIT TO THE MUSEUM OF TOLERANCE

During the Holocaust, memory—held by individual Jews as well as communities of Jews—became an act of defiance against Nazi policies whose aim was the total annihilation of a people and their history. Memory can also remind future generations of atrocities, such as the Holocaust, with the hope that individuals and communities will fight to stop policies of genocide against any group of people. Simon Wiesenthal, the Austrian Jew who helped bring more than a thousand World War II Nazi war criminals to justice, expressed this best in an often-quoted phrase: "Hope lives when people remember."

**The centerpiece of the Tolerance section is an exhibit that uses computers and touchscreen monitors to explore the riots in Los Angeles following the original verdict of the LAPD officers in the Rodney King case.**

Photos by Jim Mendenhall

The main exhibition level is divided into two parts: the Tolerance and Holocaust sections. First you enter the Tolerance section. It includes a variety of interactive installations that present an overview of the issues of prejudice, racism, and intolerance. It explores how people carry judgments of others, and how elements of prejudice can be things we do "unknowingly" or unconsciously. One display, for example, tests your associations to words while another highlights your reactions to appearance, and how those reactions change as appearances change—whether it be because of age, race, gender, style of dress, etc.

The centerpiece of the Tolerance section is an exhibit that uses computers and touchscreen monitors to explore the riots in Los Angeles following the original verdict of the LAPD officers in the Rodney King case. The information is divided into categories such as the media, the police, shopkeepers, etc., containing new video clips of the events as well as interviews to present the events from various perspectives. The section on shopkeepers, for example, shows what happened to Korean-owned stores in South Central Los Angeles, as well as interviews with the owners, rioters, and others. Before you begin, it queries you with a series of questions about yourself—age, where you are from, gender, and ethnicity—then presents questions about social justice and responsible citizenship. After answering these questions a graph is displayed tabulating all the responses. (It is quite powerful to see how reactions differ or are similar across different groups.)

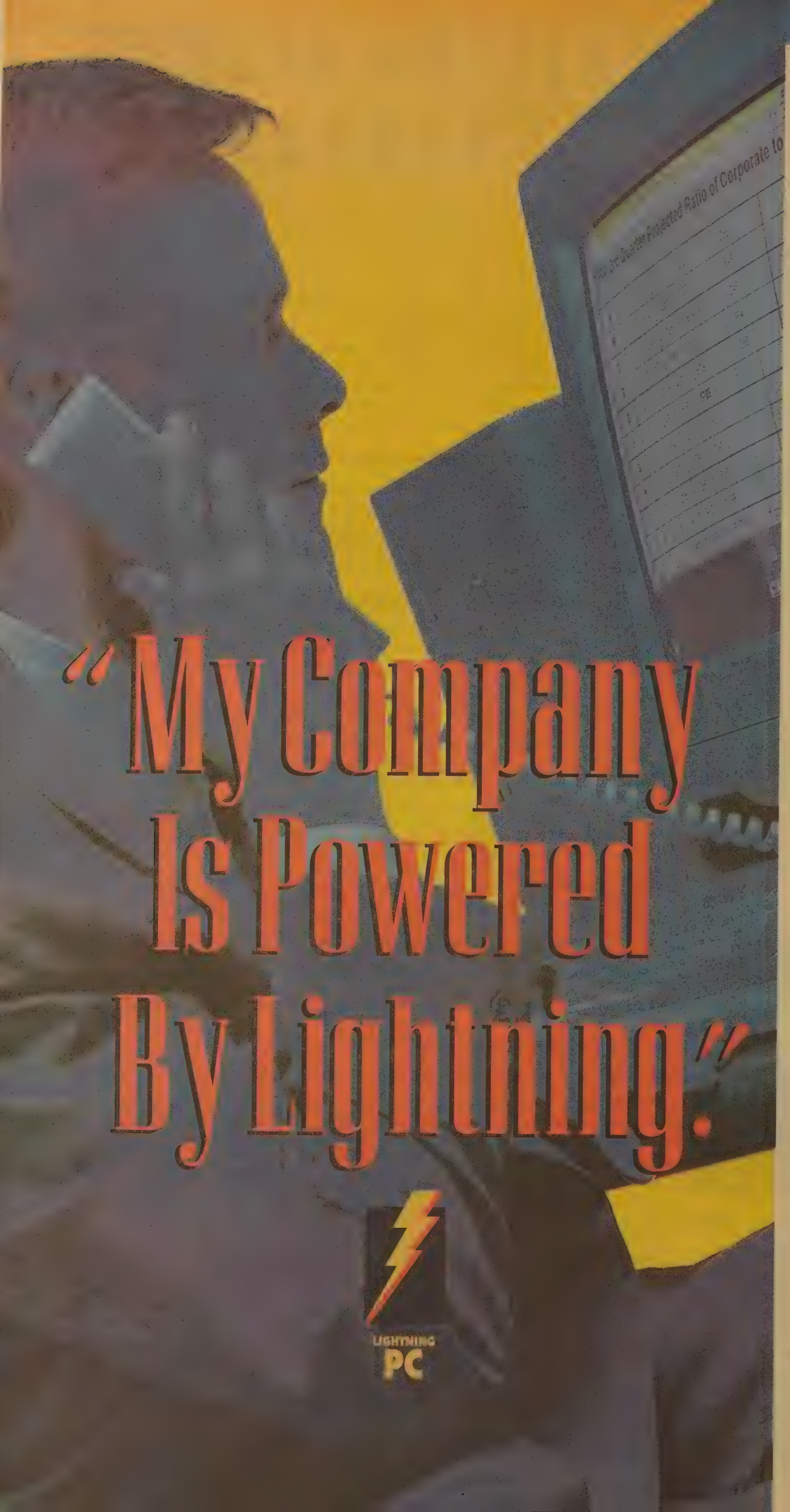
Photos by Jim Mendenhall

Exhibits on the other half of the main floor tell the story of the Holocaust, also called Shoah. They begin in 1920s and 1930s Germany with scenes from an outdoor cafe in Berlin to provide a sampling of the social fabric of pre-war Germany, and trace the buildup of the Nazi war machine and death camps built in Poland. During this period over 5.8 million Jews and millions of non-Jewish civilians (including Gypsies, gays, and the disabled) were murdered under the Nazis. In a space ten times the size of the entire original museum, close to 30,000 sq. ft. (and with no original documents on the whole floor), you are guided—almost as if you were a witness—from exhibit to exhibit by synchronized computers. Rabbi Cooper explains that "rather than putting out a document about the Wannsee Conference, we re-created the meeting experientially so people would overhear the minutes of what actually transpired in 1942 when they [the Nazi high command] made a formal decision to murder every Jewish man, woman, and child in Europe."

## MULTIMEDIA LEARNING CENTER

After experiencing the permanent exhibits you can explore the Holocaust in greater depth on the second floor in the Multimedia

*continued on page 161*



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*continued from page 157*

Learning Center. (There is also a smaller area on this floor containing original documentation such as the Anne Frank letters, canisters of Zyclon-B, a bed bunk, and objects made from desecrated Torah scrolls.)

The Learning Center offers individual research on tolerance, the Holocaust, and World War II for anyone ranging from young children to academics. The thirty-one workstations found here all have touchscreen displays that provide a sliding scale of access to the Museum's massive database. There are more than five thousand subjects connected to eight main topics: The Jews, The Nazis, World War II, Antisemitism & the "Final Solution," Resistance and Rescue, The World Response, Righteous Among the Nations, and After the War.

Originally, the information and interface were to be structured similar to a learning tree—leading from point to point along a predetermined path. During the process of gathering all the resources, Rabbi Cooper remembers staff members in the Jerusalem office saying, "A learning tree isn't good enough. You have to be able to give people instant access in what they are interested in. We have to put in an index."

"Some of us were concerned," continues Rabbi Cooper, "that if you put in an index, then many people, especially the young, are not going to use the system the way it was designed. It will just be a simple reference thing. But in the end, [the staff] turned out to be 100% right. Once youngsters get into it, it becomes self-propelled learning. So, you can go use a learning tree or the index and swim throughout the system."

The workstations are organized into four types. In the center are eight standalone workstations that provide only limited access to the resources; they are single topic, contain no electronic index, no printout capability, and offer no seating.

The next set of about eleven workstations gives two or three related topics, and includes printing capabilities, pointers to other information you may be searching for, as well as seating. There are also three stations devoted exclusively to the military and strategic battles and decisions of the Second World War, which includes the Time/Life Book Series on WW II.

Photos by Jim Mendenhall

For the more serious or motivated there is another group of eight workstations that gives you access to the entire database, letting you easily skip around between topics and references. This room was established with a gift from Steven Spielberg.

Nearby are two classrooms with large displays resting where you would expect to find a blackboard. With access to the entire system, guest lecturers or fellow students can go into more depth on any of the topics.

## BEHIND THE CURTAIN

Behind the 19" Sony touchscreen monitors in the Multimedia Learning Center are Macintosh computers, both standalone and networked, which the Museum received as a grant from Apple. You can navigate relatively unstructured through the system by subtopics, keywords, geographic locations, or an alphabetical index of topics. Once a subject is selected, it can be studied by viewing an interwoven set of media. Over fifty-seven thousand archival photos, documents, maps and map overlays; approximately forty-eight thousand encyclopedia text entries; fourteen hours of archival film footage and personal testimonies drawn from videotaped interviews; and text-voice over and background music are contained in the complete system.

Coordinating the work gathering this vast array of information was New Jersey-based Integrated Systems Research (ISR) Corp. ISR designed and created the system for the Multimedia Learning Center on Macintosh computers using a suite of applications called ISR-Media, an object-oriented multimedia development and presentation software system. ISR-Media consists of three components: ISR-Media Presentation Generator (ISR-MPG), ISR-Media Presentation Manager, and ISR-Media/Database Manager. Together, these components gave developers the ability to rapidly prototype systems under development and gain instant feedback.

## INTO THE FUTURE

In the first year and a half since it opened, more than 350,000 people have been to the Museum of Tolerance—almost nine times the number of people compared to a similar time span for the Center's original Holocaust Museum—and it continues to remain crowded. (They suggest that you purchase tickets ahead of time for weekend and holiday hours.) But the Museum, in conjunction with ISR, continues to think about its future. Rabbi Cooper observed that the "logical next step for us is to avail the system to other learning institutions on what is dubbed the Information Superhighway."

Photos by Jim Mendenhall

Currently, distant researchers can communicate with the Wiesenthal Center's Library staff via electronic mail across the Internet. This is seen as a beginning toward developing a more dynamic use of electronic networks. "We would like to be able to figure out a way," Rabbi Cooper continues, "probably starting initially with data, for libraries, schools, and other research institutions to be able to call in and pull up material from us."

The list of future projects includes creating a system for gathering, recording, and investigating the histories of Jewish settlements in Europe up to World War II. Visitors who have ties to a region or village could add to the Wiesenthal Center's archives as well as search for information about their family's past.

Rabbi Cooper also believes that this kind of technology can be very democratizing. "It allows people to send us photos of family members or of homes in some little *shtetl*. The flexibility of the system means we can put more and more in. With this technology, families can get their loved ones memorialized, without writing a big check. This enables us to further humanize history." ■

Multi Media beyond

# Amiga

## LightWave 3D v3.5
## NewTek Unbundles Premier 3D Animation Program And Announces Multiplatform Versions

NewTek has finally done what Amiga owners have been asking for since the introduction of the Toaster: unbundled LightWave 3D. That's right, you can now—legally—run LightWave without a VideoToaster. Additionally, many new features have been added to LightWave, some of which are nothing less than astounding.

I believe that this move by NewTek is as much need- as want-driven. There have always been hacked versions of LightWave floating around that ran without the VT. Furthermore, Warm and Fuzzy Logic tried to (arguably) legitimize the practice with its LightRave product, which made LightWave "think" a VT was installed. Compounding the problem was the fact that this was the only way slotless-Amiga owners could run LightWave. At least now there is a legal route for honest users, and perhaps piracy will be curtailed. Moreover, this increases LightWave's market potential significantly.

The stand-alone version of LightWave works on any Amiga (except the 1000, according to the documentation) with 8MB of RAM and a hard disk. The seven floppy disks uncompress into about 10MB worth of files. This includes the main LightWave programs, Layout and Modeler, plus several scene, object, image, surface, macro, and PostScript font files. (Incidentally, the main programs appear to be identical to the VideoToaster upgrade versions.) Also included is the two-hour "LightWave 3D Essentials" tutorial tape by Lee Stranahan.

### COPY PROTECTION

It has been said that the VideoToaster is the most expensive dongle ever devised. Well, I guess NewTek didn't want to totally break tradition, so the stand-alone version's copy protection comes in the form of a parallel port dongle. Although the dongle has a pass-through connector, LightWave wouldn't work when I connected my printer to it. The manual indicates that the dongle works "best" when it is the only device attached to the parallel port, an understatement to say the least.

BY DOUGLAS J. NAKAHIHARA

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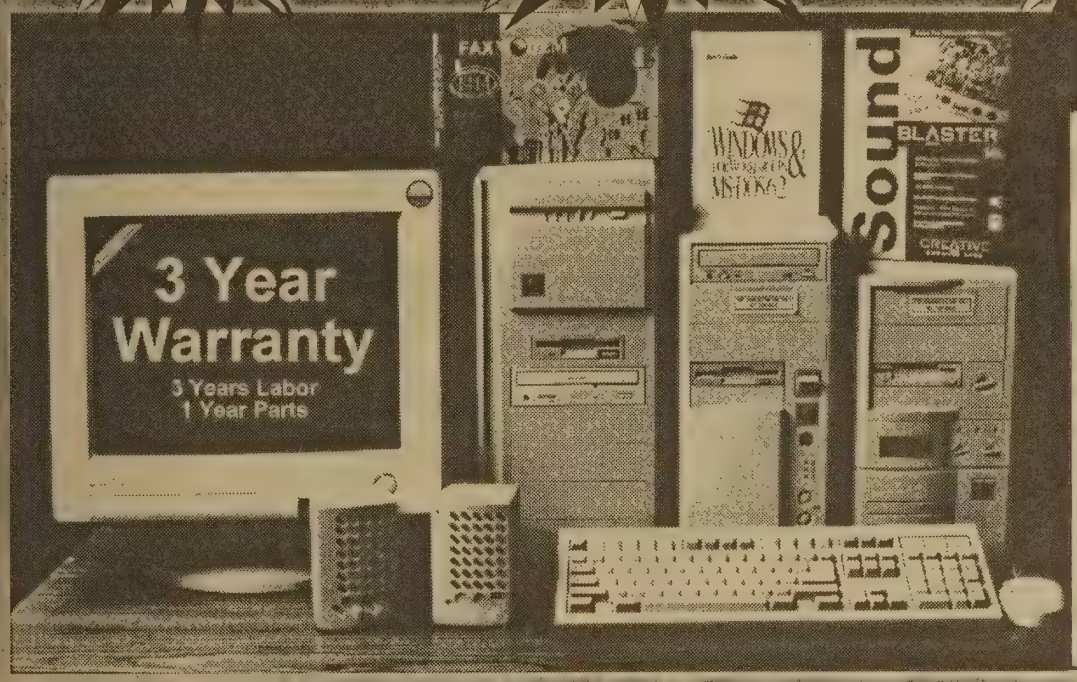


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My solution was to use a parallel port switchbox. However, a word of warning here: Be careful switching things while your computer is on, especially if those peripherals are plugged in. I used to do this regularly, until I blew a few 8520 chips. It's very tempting to do the quick thing, but consider the growing scarcity of spare Amiga parts, not to mention the pain and expense of repairs.

## THE DISPLAY

Currently only the VideoToaster, HAM6, HAM8, and the Picasso II are directly supported for displaying rendered images. However, NewTek indicates that more 24-bit boards will be supported in the future.

Of course you can display the Layout and Modeler screens on the various 24-bit boards that emulate Amiga screens—Layout even has high-resolution screen options. However, I found that with my Retina, often the screen did not update properly. (There have been similar reports of problems with the Picasso board.) This necessitates using Retina's continuous screen update function, which really slows things down.

As a result, I found that running everything on normal Amiga screens worked best overall. Besides, the built-in deinterlaced Amiga 3000 display was a significant improvement over the slightly flickering display on my 4000.

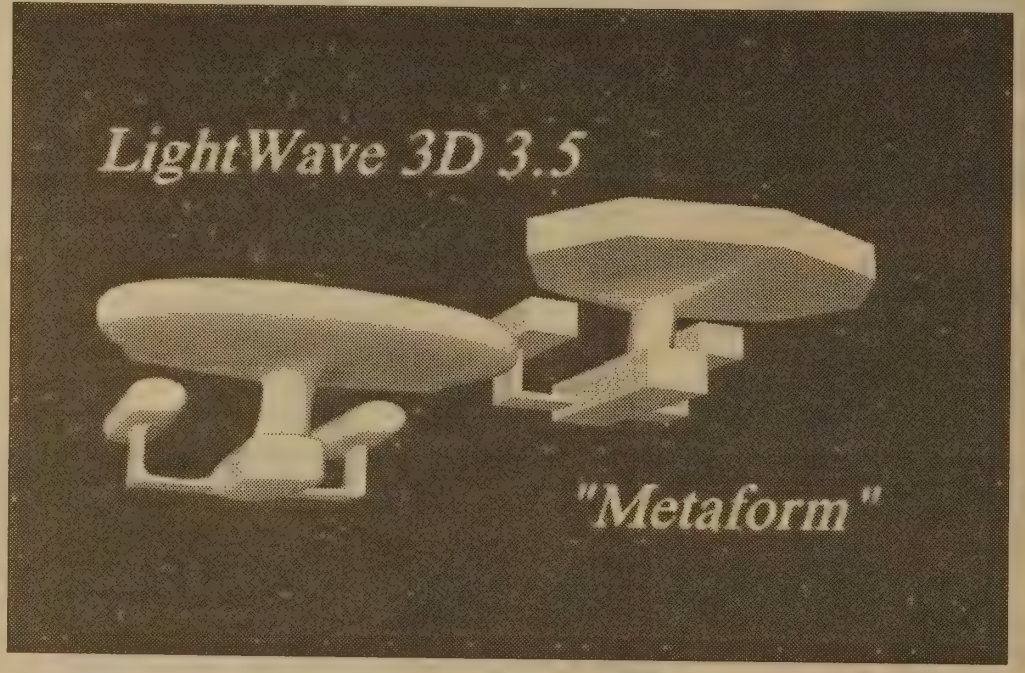
## IMPROVED INTERFACE

A lot of work has gone into streamlining the interface, making LightWave even more intuitive. Duplicate gadgets and controls have been eliminated, particularly those related to motion graphs. Mini-sliders have been added in many instances, giving an alternative to the old way of typing in certain parameters. Some mutually exclusive gadgets, like render resolutions, have been grouped and are now accessed via pop-up menus. In instances where an image is used as a map (e.g., displacement, clip, surface images, etc.), a thumbnail representation is now shown for reference.

## OTHER NEW LAYOUT FEATURES

A time-saving automatic-keyframe feature has been added. This saves the hassle of having to re-create a keyframe when changes are made. Of course I wouldn't suggest using this option unless you're sure you want the keyframe settings to be updated without confirmation.

The Scene menu has become a lot more useful by moving some functions here from other areas and adding a few new ones. There is now a small icon that gives a visual indication of the type of item (i.e., object, bone, light, or camera). The visibility of each item can be individually changed from here. For objects, this includes wireframe, invisible, bounding box, points-only, and every fourth polygon—each offering various degrees of screen update speed.




The ease of using Bones has been increased with the addition of the Add Child Bone feature. In prior versions of LightWave, you had to add the bone and then parent it in a separate step.

For particle animations, there are now options to increase the rendered pixel size of these one-point polygons (and two-point lines) for better visibility.

Previously, one of the limitations of lens flares was that they didn't change as a light source moved farther away from the camera. An option to do this has been added. Other new Light functions include a visible indicator of the falloff setting in the Layout screen.

Fog effects have been improved with addition of the ability to set the amount of fog at the minimum and maximum fog distances. A Fog graph has also been added to visually check the fog settings.

The Camera menu has been substantially revamped. In addition to the preset resolutions, specific X and Y values can be set. Images can now be rendered in resolutions up to 16,000 x 16,000 pixels! Keep in mind, higher resolutions will use more RAM.

Version 3.5 supports an open architecture "plug-in" technology, which allows certain features to be added without modifying the main program. This should provide opportunities for third-party developers for things like 24-bit display board compatibility, image pre- and post-processing, greater file format support, etc. In this release, frames can be saved in 24-bit Raw and Targa file formats, in addition to 24-bit IFF and the two HAM modes. Targa files can also be directly loaded as images.

Previews are quick wireframe animations that can be made and played right in Layout. For some reason, you can make and play them, but you cannot load or save them unless you're running LightWave with a VideoToaster. The workaround is to formally render a wireframe anim.

If you are one of the few lucky individuals that have a Raptor rendering engine, the necessary hooks are included in the ScreamerNet menu.

## MODELING

A lot of nice touches have been added to Modeler to ease the task of modeling. This includes a scrolling help screen, additional hot keys, and more intuitive Undo and function selection operation. Two additional layers have been added to Modeler for a total of ten.

Probably the coolest new feature added to LightWave is "Metaform." Nearly hidden as a subfunction of Polygon/Subdivide, this function will convert an object's surface to a smoother, more rounded and detailed form. Basically, Metaform appears to round

## RESOURCES:

**LightWave 3D 3.5 (stand-alone) $695**
**VideoToaster 3.5 Upgrade, $99.95**
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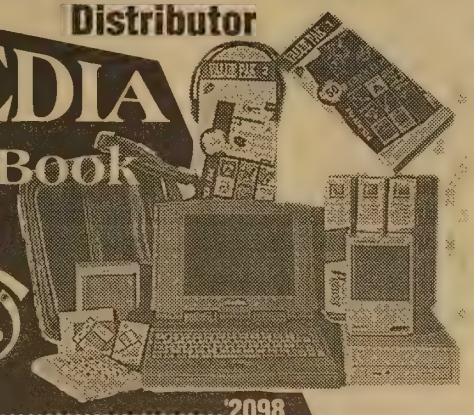

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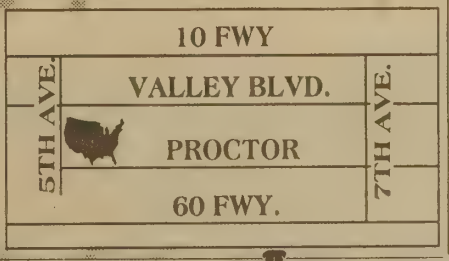


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*continued from page 119*

down corners and edges by adding more polygons. NewTek's Lee Stranahan recently joked that although including a Starship Enterprise object with LightWave might present some legal problems, they could include the Starship "Dent-erprise", which after metaforming would look "pretty darn good."

**NewTek has also announced that the next major release of LightWave, v4.0, will be available in versions for Microsoft Windows, Windows NT, and SGI!**

A new Fractal parameter has been added to all Subdivide operations, which jitters the points after the subdivide, but does not move the original vertices—normal jitter operation moves all points, which includes vertices. Subdivide now also works on quadrangles (planar only) and doesn't require triangular polygons.

Three new options have been added to the Jitter tool. The Gaussian option provides a less ragged jitter than the original. The Normal option allows you to set a range within which a point may be moved from its current location. Finally, the Radial option randomly distributes points inward or outward from a defined centerpoint.

The Display menu now contains a great feature that swaps selected and unselected items. (I've wished on more than one occasion for this feature.) From this menu you can also selectively hide and unhide items. The cool thing about this is that editing operations will not affect the hidden portion of an object. This is great for editing really complex objects and should minimize the need to cut things to separate layers to localize operations. Of course, hot keys have been added to quickly access these functions.

Point order is now maintained after cut-and-paste operations. This will make creating morph-target objects much easier. (Previously you had to save and load an object before manipulating points.)

## THE MANUAL

The documentation consists of the LightWave section from the 3.1 VideoToaster manual, plus a 53-page addendum. The addendum actually covers new features from 3.0, so I had a little problem determining what had been added since 3.1.


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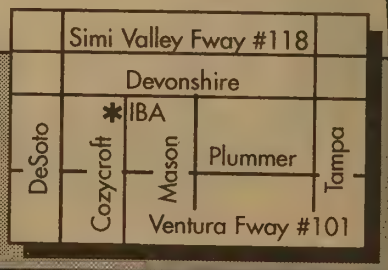


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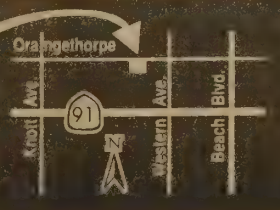


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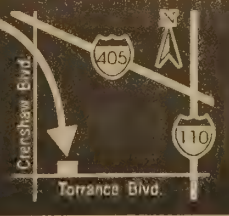


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# MultiMedia & beyond

When I first started learning LightWave the manual was often an obstacle and, unfortunately, the addendum will just add to the complexity for new users, However, LightWave Pro editor John Gross is writing the next manual, so documentation should soon take a giant leap forward. (Incidentally, I highly recommend LightWave Pro to any LightWave user. Call 1-800-322-AVID for info.)

If you can never remember that yellow is mostly red and green, with sometimes a dash of blue, the manual addendum includes a great table of RGB color settings. (It even includes the only two I can remember, White: 255 255 255 and Black: 0 0 0.)

## What I've always liked about LightWave is that it's just so darn easy to use compared to other 3-D animation packages I've seen and used.

### THAT'S NOT ALL

And if all this isn't enough, NewTek has also announced that the next major release of LightWave, v4.0, will be available in versions for Microsoft Windows, Windows NT, and SGI! (There are no plans for a Mac/PowerMac version at this time.) Price is expected to be under $1000. There will reportedly be total cross-platform compatibility. As such, someone working on an SGI at work could bring the same project home and work on it on their Amiga or PC, albeit with a major performance hit. It will be interesting to see how certain Amiga-dependent things like ARexx macros will be implemented on the various platforms. NewTek hopes to have these products shipping in December.

The thing I've always liked about LightWave is that it is just so darn easy to use compared to other 3-D animation packages I've seen and used. A novice user can achieve impressive

*continued on page 173*

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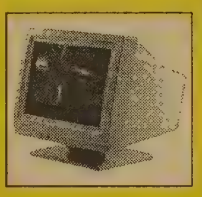

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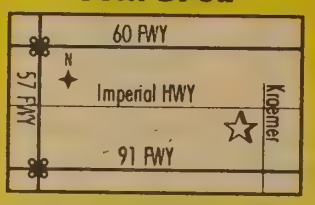


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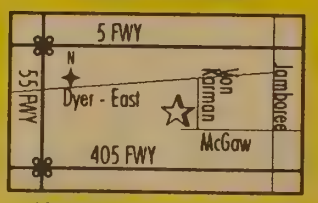


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*continued from page 168*

results in no time at all. At the same time, it is still extremely powerful as evidenced by its use in various broadcast TV shows, like *seaQuest DSV*, *Babylon 5*, and *Robocop*, to name only a few. Layout programmer Alan Hastings and Modeler programmer Stuart Ferguson are to be highly complimented on their efforts.

## LIGHTWAVE HINTS

Since we're talking about LightWave, here are two helpful tips.

There are times it would be nice if you could have multiple cameras. You could then get a different look at a scene, or concentrate on a certain object in Layout without having to move the camera. Well, just add a light, set the intensity to 0, and use it like a camera by using the Light view. Targeting it to a null object will make things even easier. You can add as many of these lights as you like, and they even save in the Scene file. (Note: This should work in any version of LightWave.)

With the new Metaform feature, it's now easy to get rounded corner/edge boxes. Simply create the box with three segments on each axis. Then move the points for the two inner lines (in all views) closer to the edge and run Metaform. You can adjust the rounding by playing with the distance of the lines from the edge.

## FLYER STILL GROUNDED

Demo units of the Flyer were supposed to be delivered to selected dealers in July, with final production units available to customers in October. The latest official word is that dealers will get demos in September, with consumer units available in stores early November.

There are two positive things about this delay. One is the software will have greater features and be more mature; and two, hard drive prices should be lower (they seem to get cheaper by the week).

## COMMODORE NEWS

All the Commodore bidders met in New York late in August. As of this writing, I have it on very good authority that the Commodore UK management group was indeed the highest bidder for the Commodore assets. However, there has been no official announcement yet. ■

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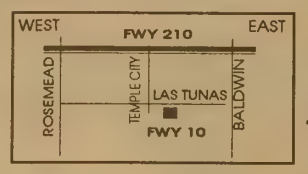


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**SPECIAL** w/full Tower case

### INFINITY 2000™
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- Chicony 101 Enhanced Key Board
- Microsoft mouse

66 MHz **$2418** 90 MHz **$2658**
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- Mid. Tower Case w/230W Power Supply
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- 101 Enhanced Key Board
- Microsoft mouse

66 MHz **$3358** 90 MHz **$3598**
**SPECIAL** w/full Tower case

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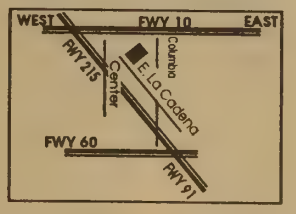


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- 80486-66MHZ 64K Cache Motherboard
- 4MB RAM Expandable to 32MB
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- IDE (Hard/Floppy ) Control
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- 101 Keyboard

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| MultiScan 20 | 1949 |
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| 8 MB/250 HD CD | 2779 |

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# MONITORS

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- Matched pair of high performance stereo speakers from Creative Labs.

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- Sound Blaster compatible

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- Standard PC port for 1 or 2 joysticks (optional splitter cable available)

**$269**

## STEREO AMPLIFIER AND MIXER

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## 386SX/40MHz Barebones

- Mini Tower Case
- 40 MHz 386SX MB
- 1.2 OR 1.4 MB
- Floppy Drive
- Hard & Floppy
- Controller IDE
- 101 Key Keyboard
- Clock/Calander
- 2 Serial Ports/ 1 Printer Port/Game

***$245***

## 386DX/40MHz W/128K Cache Barebones

- Mini Tower Case
- 40 MHz 386 DX w/128K Cache
- 1.2 OR 1.4MB
- Floppy Drive
- Hard & Floppy
- Controller IDE
- 101 Key Keyboard
- Clock/Calander
- 200 Watt Power Supply
- 2 Serial Ports/ 1 Printer Port/Game

***$299***

## 486DX/66MHz W/256K Cache

intel inside

- Mini Tower Case
- 66 MHz 486 DX w/256K Cache
- 1.2 OR 1.4MB
- Floppy Drive
- Hard & Floppy
- Controller IDE
- 101 Key Keyboard
- Clock/Calander
- 200 Watt Power Supply
- 2 Serial Ports/ 1 Printer Port/Game

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# MICRO CITY SM

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# NEW TREATS - NO TRICKS!

### HP COLOR LASERJET PRINTER

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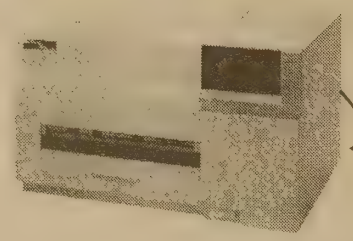
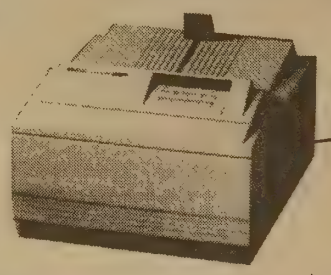


CALL!

Presenting a colorful sequel to the most popular laser printers in history. Introducing the HP Color LaserJet printer! Featuring eight full colors and millions of halftone colors, this high quality printer uses direct-to-drum imaging for exceptional print registration. Fast color printing at up to 2 pages-per-minute or up to 10 pages-per-minute in basic black.

### HP LASERJET 4V LASER PRINTER

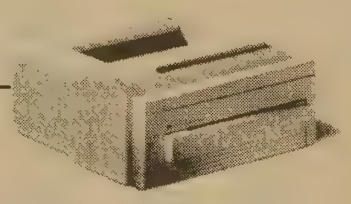


CALL!

Do it in double time! This new LaserJet printer features a resolution of 600 dpi and prints at 16 pages-per-minute using a 33-MHz RISC processor, making it the fastest LaserJet printer! The LaserJet 4V also features the ability to print on wide-format 11" x 17" paper, making this printer the perfect choice for CAD/Design professionals.

### HP LASERJET 4L LASER PRINTER

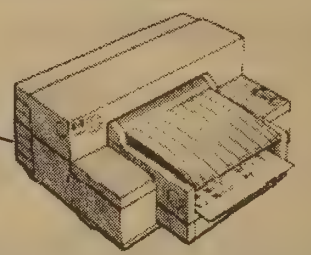
$575*
* AFTER $50.00 REBATE



This 300 dpi laser printer is HP's lowesr priced LaserJet ever. In addition to it's sharp looking output, the LaserJet 4L has an incredibly small 14" by 14.5" footprint; the perfect fit for your desk or shelf. Plus, it comes equipped with 26 built-in scalable fonts for professional quality documents.

### HP DESKWRITER / DESKJET 560C INKJET PRINTER

$539



Using an advanced color printing system with HP's exclusive built-in ColorSmart technology, the new DeskJet / DeskWriter 560C delivers optimal color output. Also features resident dual cartridges for convenient black-and-color printing at the same time, clear 600 x 300 dpi black printing, and a variety of internal and scalable fonts!

### HP LASERJET 4 PLUS LASER PRINTER

$1369

Featuring incredible **600 dots-per-inch output with a *new 12 page-per-minute print engine***, the new HP LaserJet 4+ is the fastest 600 dpi printer on the market! Add to this 45 internal scalable typefaces and 2MB of standard memory (expandable to 32MB), and it's easy to see that the LaserJet 4+ is *the* ideal high-end printing solution!

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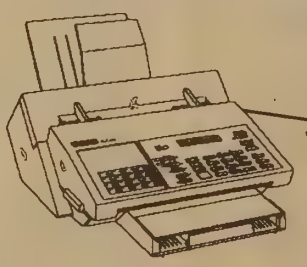

$640*
* AFTER $75.00 REBATE

Forget having to copy curled-up slippery faxes — the HP-Fax 900 prints crisp faxes on plain copier paper. It comes loaded with time-saving features like a document feeder, copy functions, speed dialing, memory transmission, and broadcasting!

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# POWER SYSTEMS AT POWER PRICES

### GST 66VLB VESA LOCAL BUS SYSTEM

***COMES COMPLETE WITH:***

- Intel 486DX2/66
- 256k Cache
- 4MB 60NS RAM
- Mini-Tower Case
- 1.44MB Floppy Drive
- **345MB** Maxtor Hard Drive
- VL / IDE Controller
- Cirrus Logic VLB Video Card with 1MB RAM
- 101 Keyboard
- Everview 14" SVGA Non-interlaced Monitor (.28)

**$1129.00**

GST, INC.

### GST POWER90 SYSTEM

***COMES COMPLETE WITH:***

- Intel Pentium/90MHz • 256k Cache
- ***16MB*** 70NS RAM • Medium-Tower Case • 1.44MB Floppy Drive • ***345MB*** Maxtor Hard Drive • Diamond Stealth 64-bit PCI Video Card with 2MB RAM • 101 Keyboard • Everview 14" SVGA Non-interlaced Monitor (.28)

**$2649.00**

### GST POWER60 SYSTEM

***COMES COMPLETE WITH:***

- Intel Pentium/60MHz
- 256k Cache
- 8MB RAM
- Desktop Case
- 1.44MB Floppy Drive
- **345MB** Maxtor Hard Drive
- Diamond 64-bit PCI Video Card with 2MB RAM
- 101 Keyboard
- Everview 14" SVGA Non-interlaced Monitor (.28)

**$1949.00**

*For a 1.2MB Floppy Drive* **add $47.00**
*For DOS 6.2 / Windows 3.11 / MS Mouse Bundle* **add $99.00**

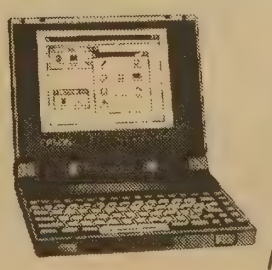
### OKIDATA OL400e LED PAGE PRINTER

Equipped with 44 built-in fonts, this printer produces great looking output at 300 dpi. It's compact size and sleek design makes it fit comfortably on any desktop, plus it's compatible with virtually all software applications!

**$489.00**

### EPSON ACTIONNOTE 500C

**FEATURES:** 640 x 480 Resolution, 256 Colors - *486SLC2/50 Microprocessor* - Weighs only 5.5 lbs - *260MB Internal Hard Drive* - MS-Windows & MS-DOS Pre-loaded - *Logitech TrackMan Trackball* - Durable Carrying Case - *One year EPSON On-site service*




**$1869.00**

### EPSON ACTIONNOTE SLC2/50

**FEATURES:** 640 x 480 Resolution - *10" Monochrome display* - Lightweight at only 5.5 lbs. - *486SLC2/50 Microprocessor* - Logitech Trackman Trackball - *MS-Windows & MS-DOS Pre-loaded* - Durable carrying case - *260MB Internal Hard Drive* - One year EPSON warranty

**$1499.00**

***The Intel Inside logo is a registered trademark of Intel Corporation Inc.***

# CD Titles IN STOCK

101 Best Games (Doom) ....12
3-D Dinosaur Adventure ....14
9 Digit ZipCode ....13
7th Guest ....15
All You Can Play ....8
America Alive ....13
American Business Phone Book 93/4 ....13
American Heritage Dictionary ..17
Atlas Pack (US & World) ....13
Animals ....12
Arthur's Teacher Trouble ....13
Asia Alive ....13
Audubon's Birds ....12
Audubon's Mammals ....12
Battle Chess Enhanced ....16
Berlitz Think & Talk, Italian (7 CDs) ....89
Berlitz Think & Talk, French (8 CDs) ....89
Berlitz Think & Talk, German (9 CDs) ....89
Berlitz Think & Talk, Spanish (8 CDs) ....89
Best of Micropros (Rail Road Tycoon, Pirates, Rex Nebular Command HQ) ....14
Blue Force ....18
Colossal CookBook ....11
C.H.A.O.S. Continuum ....12
Communication Master ....8
Compton's Encyclopedia ....15
Compton's InterActive Encyclopedia ....19
Compton's Family Choice ...14
Corel Draw 3.00 ....45
Critical Path ....17
CyberRace ....14
Day of the Tentacle ....17
DeskTop Imager ....12
Dinosaur Encyclopedia ....14
Deathstar Arcade Battles ....10
Deluxe Pack 4 (U.S./World Atlas, Typing Tutor, Chess4000) ....15
Dr. Shareware ....9
Dr. Music ....11
Dr. Games ....9
Dr. T's Sing Along ....10
Dr. Windows ....9
Dragon's Lair ....37
Dune ....19
Enro Pages ....16
Europe Alive ....13
EZ Language ....19
F-117A Stealth ....15
Family Education Collection ....14
Family Doctor 3rd Ed ....14
Family Fun ....8
Fatty Bears Fun Pack ....13
Fatty Bears Birthday Surprise ....13
F15 Strike Eagle III ....12
Forever Growing Garden ....18
Gabriel Knight ....17
Grolier's Encyclopedia 6.0...20
Game Collection ....9
Game Galore ....8
Games Graphics Utilities ....8
Geekwad ....18
Gold Collection ....9
Game Platinum ....9
Game Library ....10
Global Explorer ....79
Graphic Works ....20
Great Cities of the World Vol. 1 & 2 ....13
Great Mysteries ....15
Gunship 2000 ....12
Gus Goes to CyberTown ....12
Harry's Story Disk & Coloring Book ....10
Health and Medical Industry Directory ....10
Inca ....14
Indiana Jones ....15
Iron Helix ....17
Jutland ....19
Jones In The Fast Lane ....12
Just Grandma And Me ....15
Kodak Photo CD ....12
Kings Quest V ....10
Kings Quest VI ....13
Languages of the World ....14
LawnMower Man ....15
Loom ....11
Last Dinosaur Egg ....15
Lord of the Rings ....19
Mayo Clinic ....14
Mozart ....10
Midi Music Shop Pro ....13
Mad Dog McCree ....16
Maelstrom ....23
Mantis ....10
Monkey Island ....12
Magic Death ....13
MacMillian Dictionary ....12
Man Enough ....20
MPC Wizard 2.0 ....10
Mario's Missing (DELUXE) ....12
Mathematic's Library ....13
Mega Race ....15
Microcosm ....15
Mixed Up Mother Goose ....10
Morphology 101 ....20
Microsoft Cinemania 94 ....29
MicroSoft ENCARTA 94 ....45
MS Bookshelf 93 ....19
MS Bookshelf 94 ....34
MS Dinosaur ....28
Multimedia Family Bible ....18
Music Clips ....18
Myst ....45
Nat. Geographic Mammals ....15.50
National Parks ....14
New Kid on the Block ....34
Ocean Below ....12
Parenting ....14
PC Sig 13 ....17
Platinum Collection ....9
Playing with Languages ....10
Publishers Paradise Pro ....24
Putt Putt joins the Parade ...13
Quantum Gate ....17
Quick & Easy Spanish ....20
Return to Zork ....17
Ringworld ....18
SFX ....13
Secret Weapons of the Luftwaffe ....12
Starwars Chess ....15
Supertoon ....10
Space Shuttle ....13
Star Trek 25th Anniversary ....20
Street Atlas ....82
Supersonic ....18
Tempra Access Plus ....13
Tempra Access ....9
The Best Caching Software ....8
Time Almanac ....12
Timetable of History Arts & Entertainment ....15
Timetable of History Business Politics & Media ....15
Timetable of History Science & Innovation ....15
Tortoise and the Hare ....34
U.S. Atlas Ver.4 ....11
U.S. History ....15
Wacky Funsters ....18
Walnut Creek Titles ....14
Where in the world is Carmen San Diego ....13
Who Shot Johnny Rock ....32
Willy Beamish ....10
Wolf 30-D Mania ....12
World Atlas Ver.4 ....11
World Circuit ....15

## EINSTEIN Multimedia Pack™ ..... $499

Plextor 4 Plex Quad Speed, Multisession
SoundBlaster 16 SCSI-2
Seek Time: 190MS Transfer Rate: 600KB/S

## INTELLECT Multimedia Pack™ ..... $389

TEAC Quad Speed, Multisession
SoundBlaster 16 MCD
Seek Time: 195MS Transfer Rate: 600KB/S

## SMART Multimedia Pack™ ..... $359

Toshiba 3401-B Double Spin, Multisession
SoundBlaster 16 SCSI 1-2
Seek Time: 200MS Transfer Rate: 330KB/S

## CLASSIC Multimedia Pack™ ..... $189

Mitsumi FX001-D Double Spin, Multisession
Pro Audio Spectrum 16 Sound Card (Add $30 for SoundBlaster 16 MCD)
Seek Time: 250MS Transfer Rate: 350KB/S

All of the above packages include one pair of Amplified Speakers and 6 Titles: U.S. Atlas, World Atlas, Mavis Beacon Teaches Typing, ChessMaster 4000, San Diego Zoo Animals, Compton's Family Encyclopedia

# EINSTEIN The CD ROM

NEC CDR 510 3XI 195MS 450KB Per Sec SCSI ..... $259
NEC CDR 210 320MS 300KB Per Sec SCSI ..... 135
Toshiba 3401B 200MS 330KB Per Sec SCSI ..... 239
Mitsumi FX001-D 250MS 350KB/S ..... 109
Panasonic 562 Double Spin 320MS, 300KB/S ..... 119
Plextor 4 Plex Quad Speed ..... 399
TEAC Quad Speed ..... 299

CALL FOR EXTERNAL CD ROM DRIVES

# Sound Cards

Premium ..... $135
SoundBlaster 16 Basic ..... 95
SoundBlaster 16 MCD ..... 92
SoundBlaster 16 MCD ASP ..... 145
SoundBlaster 16 SCSI-2 ..... 130
SoundBlaster 16 SCSI-2 ASP ..... 175
ProAudio Studio 16 ..... 115
SoundBlaster AWE 32 ..... 249

# FOR ADULTS ONLY

3-D Beauties ....20
Adult Palate ....25
After Dark Trilogy ....20
American Girls ....20
American Girls 2 ....20
Amorous Asian Girls ....25
Asian Palate ....26
AP. . . Called Wanda ....20
Art of Picking up Girls ....10
Best of the Best, vol. 1 or 2 ...25
Biker Babes ....25
Cafe Flesh ....20
California Calendar Super Stars ....20
Centerfold And Covergirls ...25
College Girls ....25
Curse of the Cat Woman ....20
Debbie Does Dallas ....20
Dirty Debutantes (InterActive) ....30
Dream Machine ....38
Exotic Poses ....20
Fao 2 ....20
Girls Doin Girls ....25
Girls Girls Girls ....20
Girls of Stephen Hicks ....20
Hidden Obsession ....20
High Volume Nude ....20
Hot Pics ....20
Interactive Adult Movie Almanac ....39
Insatiable ....20
Interactive Adventures of Seymore Butts ....38
Interactive Adventures of Seymore Butts II ....45
L.A. Strippers ....20
Loads of Fun ....20
Maddam's Family ....30
Moving Fantasies ....15
Nasty Nurses ....20
New Wave Hookers ....20
Night Trips ....20
Night Watch Interactive ....30
Night Watch Interactive II ....35
Nova Collection, vol. 1 or 2 ..25
Orient XXX-Press ....20
Pinch of Pepper ....30
Sakura ....15
Scissors and Stones ....35
Secrets ....20
Sex ....25
Squirt City ....20
T&A 2 The Maxx ....20
The Barlow Affair ....25
The Devil in Miss Jones ....20
Topless Dancer ....15
Toys, Not Boys! ....25
Urotsukidoji ....29
Virgins ....35
Wicked Whispers ....15
Winner Takes All ....35
Women on Wheels ....20
World's Best Breasts ....20
House of Dreams ....20

# PCI Local Bus Systems

**Pentium 90 Mhz** ..... $2,099.00
**Pentium 66 Mhz** ..... 1,799.00
**Pentium 60 Mhz** ..... 1,699.00

Intel 64 bit CPU
256K Cache
8Mb RAM
420Mb IDE Hard Drive
Teac 1.44 Floppy Drive
PCI-Bus ATI MACH 64 w/2MB RAM SVGA Card
15" SVGA N.I. Monitor, Low-Radiation & Energy-Saving, Flat-Screen & Edge-to-edge
PCI Enhanced IDE Controller w/2S, 1P, 1G Ports
101-key Enhanced Keyboard
Hi Resolution Mouse
Mid-Tower Case

1 yr. parts
5 yr. labor warranty

**Call for Upgrades**

# VESA Local Bus Systems

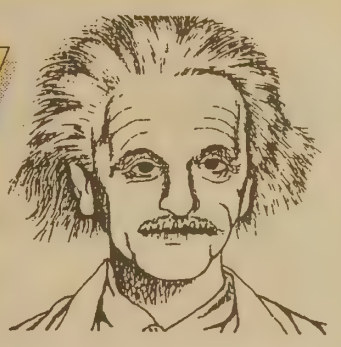
**486DX2-66** ..... $979.00
**486DX2-50** ..... 929.00
**486SX-33** ..... 879.00

Pentium Ready Motherboard w/256K Cache
4MB RAM (70ns)
420Mb IDE Hard Drive
Teac 1.44 Floppy Drive
14" SVGA N.I. Monitor,
Low-Radiation & Energy-Saving & Edge-to-edge
VL BUS SVGA w/1Mb, Accelerator for Windows
VL-Bus Super IDE Controller w/2S, 1P, 1G Ports, 4HD
101-key Enhanced Keyboard
Hi Resolution Mouse
Mini-Tower Case
(ADD $150.00 for PCI Motherboard, I/O, VGA)

1 yr. parts
5 yr. labor warranty

**Lowest Price Upgrade Available**

# TECHNOLOGY Smart Choice



## Parts

| | |
|---|---|
| Midi Adapter | $18 |
| 115 Watts Amplified Shielded Speaker | 49 |
| INTEL 14.4 Internal Fax Modem | 99 |
| INTEL 14.4 External Fax Modem | 135 |
| U.S. Robotic 14.4 Internal Fax Modem | 109 |
| ATI MACH 64 PCI w/2MG | 214 |
| Diamond Stealth 32 PCI w/2Mg | 165 |
| Diamond Stealth 32 VLB w/2Mg | 139 |
| CirrusLogic Windows Accelerators V.G.A. w/1MG | 68 |
| Conner 250 Mg Tape Back Up w/Tape | 135 |
| Super IDE, VLB Controller 2FD, 4HD, 2S, 1P, 1G, Port | 20 |
| Winbond IDE ISA Controller 2FD, 2HD, 2S, 1P, 1G | 15 |
| Rockwell 14.4 Int. Fax Modem | 69 |

## Monitors

| | |
|---|---|
| Impression 14" N.I. 1024x768, 0.28mm, L.R. & Green, Edge-to-edge, refresh 72 | $218 |
| Impression 15" N.I. 1280x1024, 0.28mm, L.R. & Green, Flat & Edge-to-edge, refresh 90 | 305 |
| Impression 17" N.I. 1280x1024, 0.26mm, L.R., Green, refresh 120 | 630 |
| CTX 17" N.I. 1280x1024, 0.26mm | 575 |
| Mag Inovision 21", N.I., 0.26mm, 1600x1280 | 1,699 |

## Motherboards w/CPU

| | |
|---|---|
| 486DX2-66, 256K VESA Pent Ready AMD/Intel | $265/299 |
| 486DX4-100 Intel, 256K VESA Local Bus | CALL |
| Pentium 60 MHz, 256K Cache, PCI | 590 |
| Pentium 66 Mhz, 256K Cache, PCI | 690 |
| Pentium 90 Mhz, 256K Cache, PCI | 950 |

## Floppy Drives

| | |
|---|---|
| Teac 1.2MB (5-1/4") | $45 |
| Teac 1.44MB (3-1/2") | 35 |

## Hard Drives

| | |
|---|---|
| Maxtor or Conner 420MB | $189 |
| Maxtor or Conner 540MB | 239 |

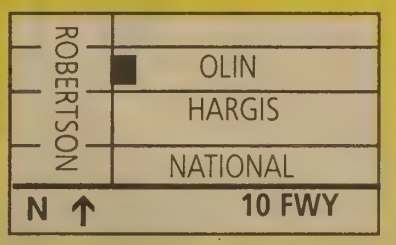
**Corporate, University and Government P.O.'s are welcomed.**

| | |
|---|---|
| NEC 345MB | 160 |
| NEC 540MB | 219 |
| Conner 810MB | 399 |
| Conner 1 GB or Western Digital | 549 |
| IBM 2.2GB | 999 |
| Conner or Quantum 1GB SCSI | 585 |

## Memory

| | |
|---|---|
| 1 Meg x30 Pins 70ns | $31.99 |
| 4 Meg x30 Pins 70ns | 119 |
| 4 Meg x 72 Pin | 129 |
| 8 Meg x 72 Pin | 249 |


**Tel: (310) 836-4441**
**Fax: (310) 836-6060**
**2812 1/2 S. Robertson Blvd., Los Angeles, CA 90034**


**HOURS:**
**M-F 10AM-6PM**
**Sat. 10AM-4PM**
**Sun. 10AM-3PM**


Terms and conditions: All of the above prices reflect 3% CASH or CHECK discount. Customers who pay CASH receive an additional 3% discount One year warranty on parts and labor. Defective merchandise is exchangeable for the same item only. Not responsible for any typographical errors.

# Resources

# Calendar Of Events

## Conferences, Shows, Special Events

### October

**October 15 Computer Marketplace.** Earl Warren Showgrounds, Santa Barbara. National Productions. Call: 1-800-800-5600 or (408)778-5200.

**October 15–16 American Computer Mega Show.** Orange County Fair Expo Center. American Mega Shows. Call: (818)961-3782.

**October 15–16 Computer Show And Sale.** Ventura Fairgrounds. MarketPro Shows. Call: 1-800-708-7555.

**October 16 Computer Show And Sale.** Antelope Valley Fairgrounds, Lancaster. MarketPro Shows. Call: 1-800-708-7555.

**October 16 NOCCC Computer Fair And Swap Meet.** Anaheim Marketplace. North Orange County Computer Club. Call: (714)521-6915.

**October 19 First Annual Southern California Software Industry Awards.** Long Beach. Software Council of Southern California. Call: (310)328-0043.

**October 19–22 ICCA National Conference.** Costa Mesa. Independent Computer Consultants Association. Call: 1-800-774-ICCA.

**October 22–23 Computer Show And Sale.** Del Mar Fairgrounds. MarketPro Shows. Call: 1-800-708-7555.

**October 22–23 International Computer Show And Sale.** Pasadena Center. R.G. Canning. (213)587-1500, Event Ext. 4; (909)628-4236, Event Ext. 50

**October 26–28 USENIX Symposium On Very High Level Languages.** Santa Fe, NM. USENIX Association. Call: (714)588-8649.

**October 29–30 Computer Marketplace.** Pomona Fairplex. National Productions. 1-800-800-5600.

## OCTOBER 29–30
### COMPUTER MARKETPLACE
**FAIRPLEX, POMONA**

National Productions presents the Computer Marketplace. Hundreds of exhibitors with thousands of products of interest to beginners and advanced computer users will be featured. Admission and parking are free, and the show is from 10:00 am to 5:00 pm. The Computer Marketplace takes place at the Fairplex in Pomona. Call: 1-800-800-5600.

## OCTOBER 15–16
### AMERICAN COMPUTER MEGA SHOW
**ORANGE COUNTY FAIRGROUNDS**

American Mega Show presents the American Computer Mega Show. There will be over one hundred companies selling their latest products, including complete systems, affordable notebooks, multimedia, printers, disk drives, and computer accessories with up to a 50% discount. Also choose from a huge selection of business, game, and educational software. The show takes place in the Expo Center, Saturday and Sunday, from 10 am–5 pm. For more information call (818)961-3782.

## OCTOBER 19–22
### 1994 ICCA NATIONAL CONFERENCE
**WESTIN SOUTH COAST PLAZA HOTEL, COSTA MESA**

The Independent Computer Consultants Association's annual national conference, entitled Investing in Our Future En Route to the Information Superhighway, is taking place October 19–22 in Costa Mesa. Top-level executives from Western Digital, Ingram Micro, Symantec, Quarterdeck, the National Institute of Standards & Technology, and Boyd L. Alexander Inc. will be the featured speakers. In addition there will be an exhibit hall and seminar tracks on business development, technical skills, support services, and industry trends. For more information or to register call 1-800-774-ICCA from 8:00 am to 4:30 pm Central Time.

## NOVEMBER 12
### COMPUTER SHOW & SALE
**CAL STATE NORTHRIDGE**

The only once-a-month, every-month Computer Show & Sale is happening Saturday, November 12, at Cal State Northridge in the San Fernando Valley. Attendees can expect dozens of vendors from throughout Southern California. Save up to 70% on new systems, hardware, software, printers, memory, and much more. Admission is $2 and parking is free. The show is located just north of Nordhoff St. on Zelzah Ave. in Northridge. Park in lot C. For more information call Frank or Beth Perez at (805)520-1423.

### November

**November 2–3 PageMaker Conference.** Los Angeles. Thunder Lizard Productions. Call: (206)285-0305.

**November 5 Computer Show And Sale.** Fresno Fairgrounds. MarketPro Shows. Call: 1-800-708-7555.

**November 6 Computer Show And Sale.** Oxnard Community Center. MarketPro Shows. Call: 1-800-708-7555.

**November 6–10 Applications Of Software Measurement Conference.** La Jolla. Software Quality Engineering. Call: 1-800-423-8378.

**November 7–10 Government Microcircuit Applications Conference.** San Diego. Palisades Institute for Research Services. Call: Mark Goldfarb, 1-800-787-7477.

**November 11–12 STC Region 8 Conference: Bridging The Gap.** Pacific Beach. Society for Technical Communication. Call: (619)221-5627.

**November 12 Computer Show And Swap Meet.** CSU, Northridge. Advertising Concepts Productions. Call: Frank or Beth Perez, (805)520-1423.

**November 12–13 American Computer Mega Show.** UCLA. American Mega Shows. Call: (818)961-3782.

**November 13 Computer Show And Sale.** Antelope Valley Fairgrounds, Lancaster. MarketPro Shows. Call: 1-800-708-7555.

**November 14–18 COMDEX Conference.** Las Vegas, NV. Smith & Shows. Call: (617)449-6600.

**November 26–27 Computer Show And**

# PERFORMANCE AND PRICE.

**HARD DISK SPECIAL!**
CONNER 210MB ONLY $190!
SAMSUNG 310MB ONLY $247!

**WE WILL MATCH ANY REASONABLE PRICE!**

## • BARE BONE SYSTEMS •

Includes: Mini Tower, IDE Controller, 2S/1P/1G, Keyboard

| | |
|---|---|
| 386SX-40MHz ISA Bus w/1MB RAM | $187 |
| 486SLC-33MHz ISA Bus w/1MB RAM | 207 |
| 486SX-33MHz 64K C. w/1MB RAM | 289 |
| 486DX-33MHz PCI w/1MB RAM | 385 |
| 486DLC-40MHz w/128K C. VLB w/1MB RAM | 287 |
| 486SLC-66MHz 64K C. Ext. VLB w/1MB RAM | 299 |
| 486SLC-66MHz 16K C. Int. w/1MB RAM | 347 |
| 486SLC-50MHz 16K C. Int. w/1MB RAM | 307 |
| 486DX-33MHz 256K C. VLB w/1MB RAM | 315 |
| 486DX2-50MHz 256K C. VLB w/1MB RAM | 329 |
| 486DX2-50MHz 256K C. PCI w/1MB RAM | 399 |
| 486DX2-66MHz 256K.C PCI w1MB RAM | 457 |
| 486DX2-66MHz 256K C. VLB w/1MB RAM | 397 |
| 486SLC-75MHz 256K.C VLB w/1MB RAM | 399 |
| 486DX4-100 MHz w/1MB RAM | 729 |

## PCI/VLB

| | |
|---|---|
| 486DX4-100MHz PCI/VLB 256K C. w/420MB | $1408 |
| 486DX2-66MHz PCI/VLB 256K C. w/420MB | $1008 |
| 486DX2-50MHz PCI/VLB 256K C. w/420MB | $958 |
| 486DX-33MHz PCI/VLB 256K C. w/420MB | $948 |

## PENTIUM

| | |
|---|---|
| Pentium 90MHz PCI 256K C. | $2228 |
| Pentium 66MHz PCI 256K C. | $1877 |
| Pentium 60MHz PCI 256K C. | $1737 |
| Pentium 66MHz VLB 512K C. | $1767 |
| Pentium 60MHz VLB 512K C. | $1647 |

8MB RAM, 1MB PCI Video, PCI Cntrl., 1.4 FD, 540MB HD, 15" Optiquest NI Monitor

## EISA/VLB

| | |
|---|---|
| 486DX2-66MHz EISA VLB 256K C. w/420MB | $1018 |
| 486DX2 50MHz EISA VLB 256KC.w/420MB | $968 |
| 486DX-33MHz EISA/VLB 256K C.w/420MB | $958 |

## CAD SYSTEMS

| | |
|---|---|
| 486DX2-66MHz CPU 256K C. | $1578 |
| 486DX2-50MHz CPU 256K C. | $1508 |

16MB RAM 1MB VRAM S3 Chip WD Accelerator 32 Bit Video 540MB HD, 32 Bit 1MB C. Cntrl. IDE

## VESA/LB

| | |
|---|---|
| Green PC 486DX4-100MHz VLB 256K C. w/420MB | $1327 |
| Green PC 486DX2-80MHz VLB 256K C. w/420MB | $999 |
| Green PC 486DX2-66MHz VLB 256K C. w/420MB | $937 |
| 486DX2-66MHz VESA LB 256K C. w/420MB | $907 |
| 486DX2-50MHz VESA LB 256K C. w/420MB | $847 |
| 486DX-40MHz VESA LB 256K C. w/420MB | $877 |
| 486DX-33MHz VESA LB 256K C. w/420MB | $827 |
| 486SX-33MHz VESA LB 256K C. w/420MB | $797 |

## IBM SLC/VLB

| | |
|---|---|
| IBM 486SLC-75MHz VLB 256K C. w/250MB | $927 |
| 486SLC-66MHz VLB 64K C. w/250MB | $827 |
| 486SLC-33MHz ISA w/250MB | $727 |

## ISA/DLC

| | |
|---|---|
| 486DLC-40MHz VLB 64KC. w/250MB | $808 |
| 486DLC-40MHz ISA 64KC. w/250MB | $788 |
| 386DX-40MHz 128KC. w/250MB | $737 |
| 386SX-40MHz w/250MB | $717 |

## • NETWORK •

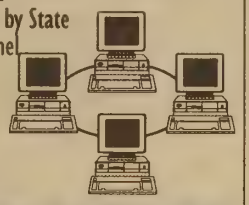
### NETWORK PRODUCTS

**Are You Planning a New Network?**
**Are You Upgrading a Current Network?**
**Want to Add Windows for Workgroups?**
**Find Out the Hidden Costs of Upgrading!**
**Get These and Other Questions Answered By Our Network Staff!**

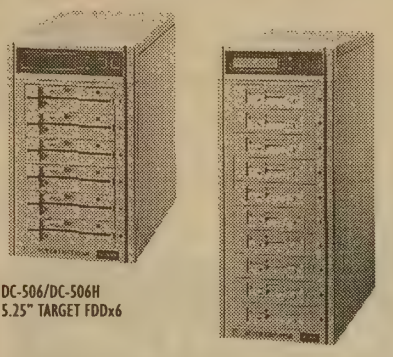
| | |
|---|---|
| Ethernet NE2000 Coax Card | $49 |
| Ethernet NE2000 10 Base-T, Twisted Pair | 49 |
| Novell NE2100 Bus Master NIC (10 Base-2 (BNC)/10 Base-5 (AUI)) | 49 |
| Lantastic AI5.0 Single For Windows/DOS | 88 |
| Concentrator, UPS, LANSoftware | CALL |

**COMPLETE NETWORK SOLUTIONS**

- Service & Support
- Installation Done by State Licensed Personne
- FREE Estimate
- Novell Engineer
- Reference on Demand
- Demo Available



## • THE SUPER COPYSTAR • DISKETTE DUPLICATORS/ FORMATTERS



DC-506/DC-506H 5.25" TARGET FDDx6

DC-3010/DC-3010H 3.5" TARGET FDDx10

### FUNCTIONS:

• Copy • Brief Copy • Loading Copy • Format • Compare • Verify • Head Cleaning • Head Alignment • Set Track No. • Set Re-Try No. • Write-Protection Override • Power-On Self-Test • Master Drive Selectable

### AUTOLOADER AVAILABLE!

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|---|---|
| Edition 14" Amber | $89 |
| Edition 14" White | 89 |
| 14" SVGA .39dp 1024x768 | 187 |
| 14" 1024x768 .28dp Interlaced | 195 |
| Shamrock 14" (1024x768) .28DPI N-I | 225 |
| Shamrock 15" (1280x1024) .28DPI N-I | 317 |
| Optiquest 15" 1280x1024 .28dp N-I | 307 |
| Sceptre CD-615GL 15" Energy .28dp N.I. | 355 |
| Optiquest 17" 1280x1024 .26dp N-I. | 579 |
| Shamrock 20" 1280x1024 .28dp N.I. | 1179 |

## • MOTHERBOARDS •

| | |
|---|---|
| CPU Pentium 60/66/100MHz, 4D100/66/50MHz | CALL |
| Opti Pentium PCI/VLB 90/100MHz 256K C. | $397 |
| Intel Pentium/PCI 90/100MHz 256K C. | 437 |
| Intel Pentium/PCI 60/66MHz NCR SCSI 256K C. | 387 |
| Intel Pentium/PCI 60/66MHz 256K C. | 287 |
| Forex Pentium/VLB 60/66MHz 512K C. (Made USA) | 241 |
| PCI/VLB 486-66/75/100MHz 256K C. (Made USA) | 169 |
| EISA/VLB 486-33/40/50/66MHz 256K C. | 169 |
| VLB/ISA 486-33/40/50/66MHz 256K C. Opti | 97 |
| Intel Pentium/PCI 256K C. 90MHz CPU | 1187 |
| Intel Pentium/PCI 256K C. 66MHz CPU | 857 |
| Pentium/VLB 512K C. 66MHz CPU (Made USA) | 817 |
| Pentium/VLB 512K C. 60MHz CPU (Made USA) | 687 |
| Green PC 486DX4-100MHz 256K C. | 687 |
| Forex ISA/VLB Green PC w/DX2-66MHz 256K C. | 327 |
| Forex ISA/VLB Green PC w/DX2-50MHz 256K C. | 227 |
| VEGA ISA/VLB Green PC w/DX2-66MHz 256K C. | 407 |
| VEGA ISA/VLB Green PC w/ DX2-50MHz 256K C. | 377 |
| VEGA ISA/VLB Green PC w/DX-33MHz 256K C. | 367 |
| PCI/VLB Green 256K C. DX-33MHz CPU (Made USA) | 293 |
| PCI/VLB Green 256K C. DX2-50MHz CPU (Made USA) | 298 |
| PCI/VLB Green 256K C. DX2-66MHz CPU (Made USA) | 392 |
| VLB Green PC 486DX2-80MHz 256K C. | 347 |
| IMS 3PCI/3VLB/4ISA 4DX-100MHz 256K C. | 727 |
| Hint EISA/VLB 486DX2-66MHz CPU 256K C. | 417 |
| Hint EISA/VLB 486DX2-50MHz CPU 256K C. | 315 |
| VESA LB 486DX2-66MHz 256K C. w/PS Socket | 317 |
| VESA LB 486DX2-50MHz 256K C. | 227 |
| VESA LB 486DX-33MHz 256K C. | 215 |
| VESA LB 486SX-33MHz 128K C. | 185 |
| IBM 486SLC2-75MHz VLB 256K C. w/PS Socket | 290 |
| IBM 486SLC2-66MHz VLB 64K Ext. w/Math Co. | 227 |
| IBM 486SLC-33MHz ISA w/CPU | 97 |
| Cyrix 486DLC-40MHz VLB 128K C. w/Math Co. | 187 |
| Cyrix 486DLC-40MHz ISA 128K C. w/Math Co. | 159 |
| 386DX-40MHz w/128K C. | 99 |
| 386SX-40MHz | 77 |

## • CD-ROM •

| | |
|---|---|
| Panasonic CD-ROM Double Speed | $147 |
| Panasonic CD-ROM Double Speed w/16 bit Sound Card | 227 |
| NEC Triple Speed (OEM) CD ROM | 357 |

## • VIDEO •

| | |
|---|---|
| MGP | $15 |
| VGA 256K 16 Bit | 35 |
| Trident SVGA 512K | 45 |
| Trident SVGA 1MB | 61 |
| Cirrus Logic VLB 1MB 32 Bit Video | 77 |
| Advanced Logic 2301 PC 1M | 105 |
| Cirrus Logic 5434 PCI 1MB | 118 |
| Tseng Lab ET4000 PCI 1MB | 145 |
| S3 Vision 864 PCI 1MB | 147 |
| ATI Wonder XL24 1MB | 107 |
| ATI Wonder Mach 32-D 1MB 16 Bit | 150 |
| ATI Ultra Plus Mach 32-D 24 Bit 2MB | 185 |
| ATI Ultra Pro Mach 32-V 24 Bit 2MB | 255 |
| ATI Wonder Mach 32-D VLB 1MB | 137 |
| ATI Ultra Plus Mach 32-D VLB 2MB | 197 |
| ATI Ultra Pro Mach 32-V VLB 2MB | 267 |
| ATI Winturbo Mach 64-V VLB 2MB | 317 |
| ATI Ultra Plus PCI Mach 32-D 1MB | 137 |
| ATI Ultra Pro PCI Mach 32-V 2MB | 270 |
| ATI Winturbo PCI Mach 64-V 2MB | 317 |
| Diamond Stealth 32 VLB, S3 Chip, 1MB | 160 |
| Diamond Stealth Pro VLB 1MB VRAM up to 2MB | 249 |
| Diamond Speedstar Pro VLB 1MB | 125 |
| Diamond Stealth 32 PCI VLB w/2MB DRAM | 419 |
| Orchid Fahrenheit VLB 32 Bit 1MB exp. 2M | 169 |
| Spider PC II 64 Bit VLB 2MB | 207 |
| AT I/O (2S,1P,1G) Ports | 14 |
| AT IDE (Dual HD/FD Controller) w/Cable | 14 |
| AT Super IDE w/I/O (Dual HD/FD Controller) | 17 |

## • HARD DISK/TAPE

| | |
|---|---|
| 1.2MB FDD (5.25") | $47 |
| 1.4MB FDD (3.5") | 37 |
| 1.2/1.4MB Dual FDD | 105 |
| 2.88MB FDD (3.5") | 79 |
| 130MB IDE (17ms) | 155 |
| 170MB IDE (17ms) | 165 |
| 250MB IDE (17ms) | 177 |
| 340MB IDE (15ms) | 197 |
| 420MB IDE (13ms) | 217 |
| 540MB IDE (12ms) | 287 |
| 810MB IDE (12ms) | 427 |
| 1.08GB IDE (9ms) | 637 |
| 1.08GB SCSI (9ms) | 667 |
| 1.80GB SCSI (9ms) | 962 |
| Quantum 545MB IDE HDD | 357 |
| Quantum 1080S 1.08GB(9ms) | 717 |
| Quantum 1800S 1.8GB (9ms) | 1098 |
| Seagate 12550N 2.4GB (9ms) | 1619 |
| Micropolis 1926 2.4GB (9ms) | 1467 |
| Micropolis 1936 3.6GB (9ms) | CALL |
| 120MB Tape Back-Up Int. | 95 |
| 250MB Tape Back-Up Int. | 168 |
| 525MB SCSI Tape Back-Up 200KB/Sec | 468 |
| 2GB Data Tape Back-Up, SCSI-2 Interface (SONY) | 798 |
| 8GB Tape Back-Up SCSI-2 Interface (SONY) | 918 |

## ALL SYSTEMS ABOVE INCLUDE:

- 4MB RAM of High Speed 70ns
- 1024 x 768 SVGA card
- 1.4MB Floppy Drive
- 1 Parallel, 2 Serial, 1 Game Port(s)
- 14" SVGA Color Monitor
- BTC 101 Key Enhanced Keyboard
- Desktop or Mini Tower Case w/Digital Display
- Serial Mouse

## UPGRADES

### VIDEO UPGRADE

| | |
|---|---|
| • ATI Wonder Mach 32 VLB 1MB | $107 |
| • ATI Ultra Pro Mach 32 VLB 2MB | 239 |
| • ATI Ultra Plus PCI 1MB | 107 |
| • 32-bit SVGA VESA LB 1MB. | 38 |
| • 32-bit IDE VESA LB Cntrl. | 15 |
| • PCI IDE Hard Disk Cntrl. | 27 |

### HARD DISK

| | 250MB |
|---|---|
| • 345MB IDE (15ms) | $27 |
| • 420MB IDE (13ms) | 48 |
| • 540MB IDE (8.5ms) | 117 |
| • 1.08GB SCSI (9MS) | 457 |

### MONITOR UPGRADE

| | |
|---|---|
| • Shamrock 14" N.I. 1024x768, .28dp | $67 |
| • Shamrock 15" N.I. 1280x1024, .28dp | 159 |
| • Optiquest 15" N.I. 1280x1024, .28dp | 147 |
| • Optiquest 17" N.I. 1280x1024, .28dp | 427 |
| • Shamrock 17" N.I. 1280x1024, .28dp | CALL |

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# Resources

**Sale.** Scottish Rite Center, San Diego. MarketPro Shows. Call: 1-800-708-7555.

**November 27 ACP Computer Swap Meet.** 1310 E. Edinger, Santa Ana. ACP. Call: (714)558-8813.

**November 30–December 2 Western Cable Show.** Anaheim. California Cable Television Assoc. Call: (510)428-2225.

## December

**December 3 Computer Show And Sale.** Ventura Fairgrounds. MarketPro Shows. Call: 1-800-708-7555.

**December 4 Computer Show And Sale.** Antelope Valley Fairgrounds, Lancaster. MarketPro Shows. Call: 1-800-708-7555.

**December 5–6 The Personal Computer Outlook Conference.** San Francisco. Technologic Partners. Call: (212)696-9330.

**December 5–7 IT Services '94 Conference And Expo.** Santa Clara. Creative Expos and Conferences. Call: (508)429-2303.

**December 5–9 Video Expo/Image World West Conference And Expo.** San Jose. Knowledge Industry Publications, Inc. Call: 1-800-800-5474.

**December 10 Computer Show And Swap Meet.** CSU, Northridge. Advertising Concepts Productions. Call: Frank or Beth Perez, (805)520-1423.

**December 12–13 Rational Drug Design: Structure-Based Design And Development Conference.** San Diego. International Business Communications. Call: (508)481-6400.

**December 12–14 DECUS Conference.** Anaheim. Smith & Shows. Call: 1-800-842-7220.

**December 14–16 Combinatorial Libraries For Chemical And Biomolecular Diversity Conference.** San Diego. International Business Communications. Call: (508)481-6400.

**December 17–18 American Computer Mega Show.** CSU, Northridge. American Mega Shows. Call: (818)961-3782.

**December 17–18 Computer Show And Sale.** Del Mar Fairgrounds. MarketPro Shows. Call: 1-800-708-7555.

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## January 1995

**January 4–7 Macworld Expo.** San Francisco. IDG World Expo. Call: Mitch Hall & Assoc., (617)361-2001.

**January 9–11 RSA Data Security Conference.** Redwood Shores. RSA Data Security, Inc. Call: (415)595-8782.

**January 19–22 Medicine Meets Virtual Reality III: Interactive Technology And The New Paradigm For Healthcare Conference.** San Diego. UCSD School of Medicine. Call: (619)751-8841.

## February

**February 15–17 Southwest Regional Government Technology Conference.** Austin, TX. GTC. Call: Paul Fairbrother, (512)794-9938.

## March

**March 7–9 Documation '95 Conference And Expo.** Long Beach. Graphic Communications Association. Call: Marion Elledge for conf. info, (703)519-8193; Kathleen Kaiser for expo info, (805)984-4364.

## May

**May 19–21 Small Office And Home Office Expo And Conference.** Anaheim Convention Center. Advanstar Expositions. Call: 1-800-854-3112.

**May 22–25 SunWorld Conference And Expo.** San Francisco. IDG World Expo. Call: Susan Granata, 1-800-225-4698.

**May 24–26 International Trade Exposition US-China Tech Show.** San Jose. CATE Development Inc. Call: (415)903-2270.

# Classes, Seminars, Workshops

## October

**October 15–16 Advanced Training Electronics: LS125 Seminar.** Irvine. Diversified Technigraphics, Inc. Call: 1-800-457-5776.

**October 22–30 Nonlinear Editing On The PC With D/Vision Pro Class.** Los Angeles. UCLA Extension. Call: (310)825-9064.

**October 31 Successful GUI Migration Strategies Seminar.** Los Angeles. DCI. Call: (508)470-3880.

## November

**November 1–2 A User's Guide To New Generation Data Networks Seminar.** Los Angeles. Center for Advanced Professional Development. Call: (714)261-0240.

**November 1–2 Effective GUI Design Seminar.** Los Angeles. DCI. Call: (508)470-3880.

**November 5 Digital Photography Forum.** Los Angeles. UCLA Extension. Call: (310)206-1423.

**November 8 How To Be A Better Techni-**

*Continued on page 188*

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| ***October 8 & 9**<br>Saturday & Sunday | **POMONA** - Fairplex (LA County Fairgrounds)<br>***MORE THAN 20 SEMINARS SCHEDULED FOR THIS SHOW!!**<br>Exit Highway 10 at Fairplex Drive. Go North to McKinley, turn right.<br>Turn Left on White Avenue to Gate 14. | Admission: $7.00 |
| **October 15**<br>Saturday | **SANTA BARBARA** - Earl Warren Showgrounds<br>Highway 101 and Las Positas. | Admission: $5.00 |
| **October 22**<br>Saturday | **SAN MATEO** - EXPO CENTER (San Mateo Fairgrounds)<br>From Hwy 101 take 92 West. Take the Delaware Street Exit.<br>Turn right on Delaware. Follow signs to Expo Center. | Admission: $5.00 |
| **October 29 & 30**<br>Saturday & Sunday | **POMONA** - Fairplex (LA County Fairgrounds) | Admission: $7.00 |
| **November 5**<br>Saturday | **RESEDA** - Sherman Entertainment Center<br>From 101 Freeway, take Reseda off ramp, turn left (if traveling East)<br>to Sherman Way, turn right, one block to Canby Street. 18430 Sherman Way. | Admission: $5.00 |
| **November 6**<br>Sunday | **BUENA PARK** - Sequoia Conference Center<br>Take the Beach Blvd. Exit off the 91 Freeway,<br>go one block North to 7530 Orangethorpe. | Admission: $5.00 |
| **November 19 &20**<br>Saturday & Sunday | **POMONA** - Fairplex (LA County Fairgrounds) | Admission: $7.00 |
| **December 3**<br>Saturday | **RESEDA** - Sherman Entertainment Center | Admission: $5.00 |
| **December 4**<br>Sunday | **BUENA PARK** - Sequoia Conference Center | Admission: $5.00 |
| **December 10 & 11**<br>Saturday & Sunday | **POMONA** - Fairplex (LA County Fairgrounds) | Admission: $7.00 |
| **December 17**<br>Saturday | **SAN MATEO** - EXPO CENTER (San Mateo Fairgrounds) | Admission: $5.00 |

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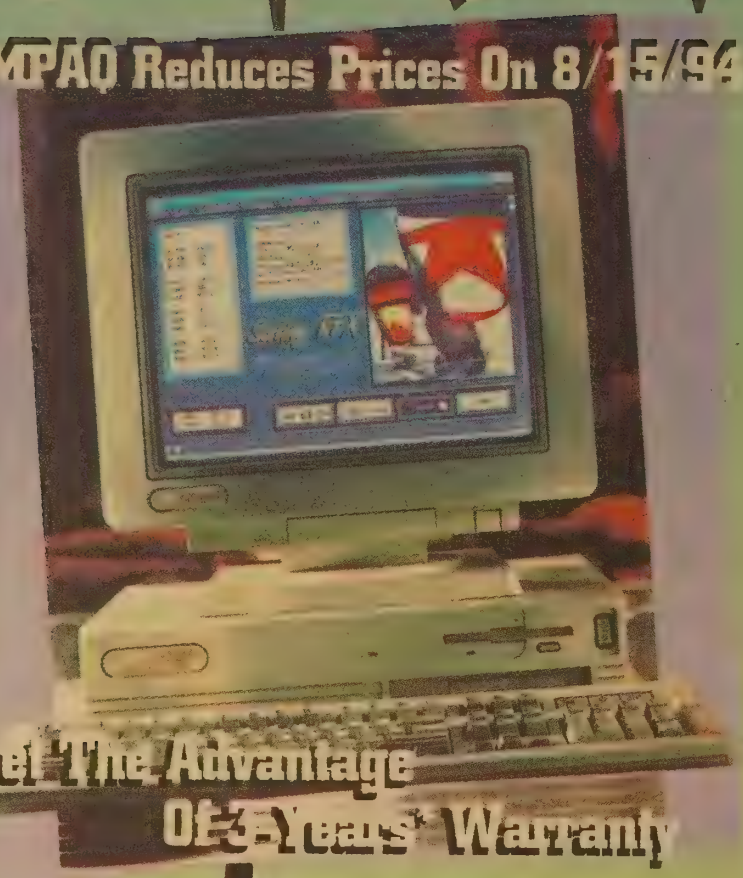

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# Resources

*Continued from page 184*

**cal Writer Seminar.** San Diego. Keye Productivity Center. Call: 1-800-821-3919.

**November 12 A Buyer's Guide To Multimedia Tools Seminar.** Los Angeles. UCLA Extension. Call: (310)825-9064.

**November 14 How To Be A Better Technical Writer Seminar.** San Bernardino. Keye Productivity Center. Call: 1-800-821-3919.

**November 15 How To Be A Better Technical Writer Seminar.** Anaheim. Keye Productivity Center. Call: 1-800-821-3919.

**November 16 How To Be A Better Technical Writer Seminar.** Los Angeles. Keye Productivity Center. Call: 1-800-821-3919.

## December

**December 1–2 NetWare Getting Started Seminar.** San Diego. Center for Advanced Professional Development. Call: (714)261-0240.

**December 3–4 Basic Laser Service Training: LS101 Seminar.** Irvine. Diversified Technigraphics, Inc. Call: 1-800-457-5776.

**December 4–9 Managing Organizational Change And Development Workshop.** Ojai. UCLA Extension. Call: (310)825-4801.

**December 5–6 Advanced PC Troubleshooting Seminar.** Los Angeles. Essential Seminars. Call: 1-800-723-7025.

**December 6–7 System Administration Of NetWare Seminar.** Los Angeles. Center for Advanced Professional Development. Call: (714)261-0240.

**December 8–9 Advanced PC Troubleshooting Seminar.** Pasadena. Essential Seminars. Call: 1-800-723-7025.

**December 8–9 NetWare Troubleshooting, Service, And Support Seminar.** Los Angeles. Center for Advanced Professional Development. Call: (714)261-0240.

**December 12–13 Advanced PC Troubleshooting Seminar.** San Diego. Essential Seminars. Call: 1-800-723-7025.

**December 12–13 Windows On NetWare Seminar.** Los Angeles. Center for Advanced Professional Development. Call: (714)261-0240.

**December 15–16 Advanced PC Troubleshooting Seminar.** Fresno. Essential Seminars. Call: 1-800-723-7025.

## January 1995

**January 26–27 Certified NetWare Engineer Test Review Course.** San Diego. Center for Advanced Professional Development. Call: (714)261-0240.

**January 26–27 Data Communications And Networking Seminar.** Orange County. Center for Advanced Professional Development. Call: (714)261-0240.

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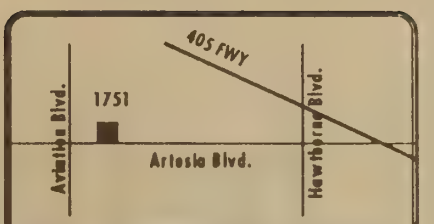


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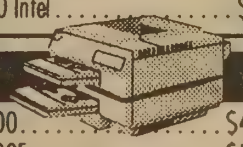

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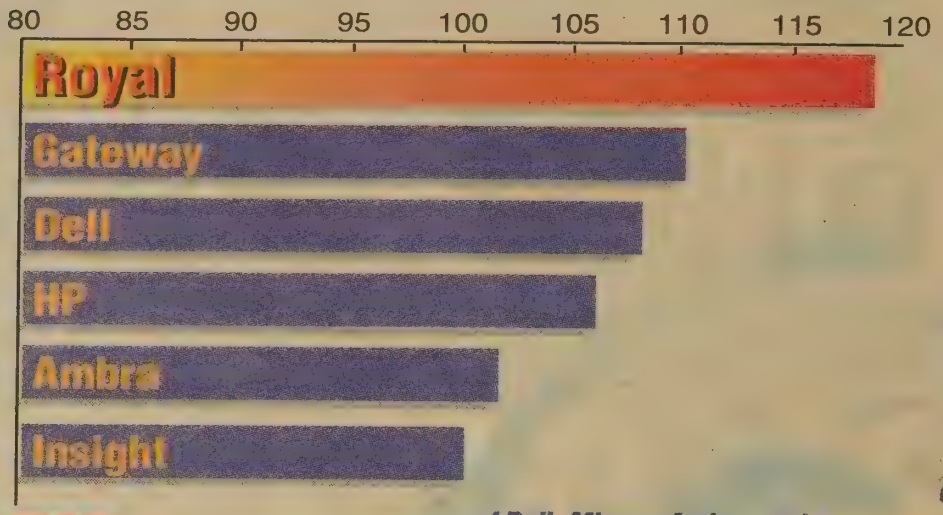


**TOP Rated Performance**

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PC MAGAZINE
Sept. 27, 1994

***"...This combination should satisfy most users--especially those who need to run high-end Windows graphics software..."***

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### Voice-Powered PCI

- 4 Intel® PCI bus-master & 4-ISA slots
- **8MB** RAM, upgr. to 128MB
- 256K write-back cache
- **540MB** 12ms IDE HD, w/128K
- PCI Enhanced-IDE "Type 3" controller
- **15" *Smile* digital monitor,** low radiation, 1280x1024– ***Byte "Best Value" Award!***
- **Royal 64-bit video** PCI accelerator, **2MB 64-bit RAM,** 1280x1024
- **4X CD-ROM drive 600KB/sec**
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- **Voice recognition software and mic.**
- **14 MultiMedia CD titles**
- 1.44MB & 1.2MB FDD, hi-res mouse
- 2S-1P-1G ports, 101 enh. keyboard

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| Pentium™-60 | ***$2,245*** |
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| Pentium™-90 | ***$2,595*** |

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- **16MB** RAM, upgr. to 128MB
- **256K fast secondary cache**
- **730MB** 10ms **Enhanced IDE** HD
- **PCI Enhanced-IDE "TYPE-3"** controller
- **15" *Smile* digital monitor,** low radiation, 1280x1024 – ***Byte "Best Value" Award!***
- **ATI mach64 PCI graphics** engine, **2MB** 64-bit RAM, 1280x1024
- **4X CD-ROM Sound Blaster AWE**
- **Voice recognition software & mic.**
- **14 MultiMedia CD titles**
- 7-bay tower, enhanced 101-keyboard
- Hi-res mouse, 1P-2S-1G, 1.44MB FDD

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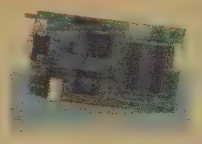
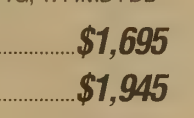
| i486™ DX2-66 | ***$2,445*** |
| Pentium™-60 | ***$2,695*** |
| Pentium™-66 | ***$2,795*** |
| Pentium™-90 | ***$2,995*** |
| Pentium™-90 EISA | ***$3,695*** |

## FAST 64-bit Video



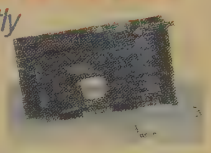
*Zip through screen redraws with champion speeds. The amazing new ATI mach64 video 2MB RAM card, with ATI's newest 64-bit processor, achieves up to an incredible 42 WinMarks or more in Windows 3.11! (Winbench ver4.0)*

## 4XCD-ROM Drive



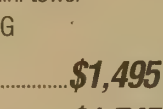
*With quadruple the processing power, 4X CD-ROM drives give you fast data transfer rates– up to 600KB/sec– for even-running, full motion video without "the shakes." Quadspeed CD-ROMs are nearly twice as fast as a triple-speed CD-ROMs.*

## TRUE Sound 16-bit DSP



*PC Magazine recently called it "the perfect sound card" for today's PC. Compatibility with all major sound standards, speech recognition, digital signal processing (DSP) for high fidelity sound at up to 20 million instructions per second, and true 16-bit record and playback. Plus MIDI, "special effects" like Q-Sound ("surround sound") and reverb, for audio realism so surprising you'll call it "True Sound".*

## MultiMedia CD Bundle

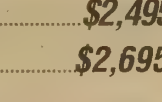


*Royal bundles 14 sound- and action-packed CDs for your personal enjoyment. Includes games, entertainment, presentation software, and complete multimedia encyclopedia.*

## 4 PCI Slots

*Whereas most PC makers give you only 2 or 3 PCI slots on their motherboards, Royal gives you 4 PCI slots. That means you'll have 2 open 32-bit PCI slots for future uses, like networking, additional controllers, and other future high-end PCI cards. And Royal's roomy cases means many open slots and bays for add-on cards and drives of all kinds!*

## Voice Recognition System



- *Hardware, mic & software included*
- *Runs in memory, under applications*
- *Frees hands for typing*

### FACT FILE

**Royal Media Master IV**

| SUITABILITY TO TASK | |
|---|---|
| Windows applications | EXCELLENT |
| DOS applications | GOOD |
| Expandability | EXCELLENT |

Ratings based on PC Magazine's "Pentium Powerhouses" review of forty 90MHz Pentium systems.
Sept. 27, 1994

intel inside

# ROYAL TRUE SOUND!

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- **8MB** RAM, upgr. to 128MB
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- **Double-speed CD-ROM & 4 CD titles**
- **16bit Orchid Gamewave 32** sound, **Digital Signal Processing**, 2 speakers
- 7-bay tower, enhanced 101-keyboard
- Hi-res mouse, 1P-2S-1G, 1.44MB FDD

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| Pentium™-66 | ***$2,045*** |
| Pentium™-90 | ***$2,245*** |

### Media Express 21
**PCI, 2X-CD, DSP Sound**

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- **8MB** RAM, upgradable
- 256K fast write-back cache
- PCI IDE hard disk controller
- **420MB** 11ms IDE hard disk
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- Royal 64 video graphics accelerator, 1 MB RAM, 1280x1024 resolution
- **Double-speed CD-ROM**, Photo CD compatible, 300 KB/sec, 4 CD titles
- **16bit Orchid Gamewave 32** sound, **Digital Signal Processing**, 2 speakers
- 101-key enh. keybd, 1.44 MB 3.5" FDD
- Choice of desktop or mini-tower
- Hi-res mouse, 1P-2S-1G

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- 256K cache, upgradable to 512KB
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- **Enhanced-IDE** PCI HD controller
- **17" flatscreen** 1280x1024
- **ATI mach64 PCI graphics** engine, **2MB** RAM, 1280x1024 resolution
- 1.44MB 3.5" floppy disk drive
- 101-key enhanced keyboard
- 7-bay tower, dual fans
- Hi-res mouse, 2S-1P-1G

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- 101-key enhanced keyboard
- 7-bay tower, dual fans
- 2 Serial, 1 parallel, 1 game port
- High resolution serial mouse

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|---|---|
| i486™ DX2-66 | ***$1,445*** |
| Pentium™-60 | ***$1,695*** |
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- Digital Display
- 1.44MB Floppy Drive
- Hard & Floppy Controller
- 101 Keyboard
- 2 Serial/1 Parallel/1 Game Port

$209

### 486DLC/40MHz
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- 128K Cache Expandable to 256K Cache
- 8 Expansion Slots
- Math Coprocessor
- Mini Tower Case
- 230W Power Supply
- Digital Display
- 1.44MB Floppy Drive
- Hard & Floppy Controller
- 101 Keyboard
- 2 Serial/1 Parallel/ 1 Game Port

$259

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- 1MB RAM
- 256K Cache
- 3 VESA Local Bus Slots
- Motherboard Upgradable
- Mini Tower Case
- 230W Power Supply
- Digital Display
- 1.44MB Floppy Drive
- Hard & Floppy Controller
- 101 Keyboard
- 2 Serial/1 Parallel/1 Game Port

$279

### 486SLC/33MHz MULTIMEDIA SYSTEM
- 2MB RAM
- 1.44MB Floppy Drive
- Mini Tower Case w/Digital Display
- 230w UL Power Supply
- 101 Enhanced Mechanical K/B
- SVGA Video Card
- 14" SVGA Monitor 1024x768 (Full Screen)
- IDE/FDD Controller
- 2 Serial/1 Parallel/1 Game Port
- 170MB IDE Drive
- Double Speed CD-ROM
- Soundblaster Pro Compatible Sound Card
- Microphone + Speakers Included
- Windows 3.11 + DOS 6.22 Included
- 3-Button Hi-Resolution Mouse

$799

## Miscellaneous

### MONITORS
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|---|---|
| Glass Monitor Screen Filter | $10 |
| 14" Monochrome Monitor | 79 |
| 14" VGA Monitor, .39 | 149 |
| 14" VGA Monitor, .39 Full Screen | 179 |
| 14" SVGA Monitor, .28 | 189 |
| 14" SVGA Monitor, .28 Full Screen | 209 |
| 14" SVGA Monitor, .28 N-I Full Screen | 209 |
| 14" SVGA Monitor, .28 N-I Full Screen | 229 |
| 15" SVGA Monitor, .28 N-I Flat Screen | 279 |
| 15" SVGA Monitor, .28 N-I Digital Control | 297 |

### VIDEO DISPLAY CARDS
| | |
|---|---|
| Monochrome Graphics Card | $12 |
| 256K SVGA HMO | 24 |
| 512K SVGA Trident | 35 |
| 1 Meg SVGA Trident | 55 |
| 1 Meg VLB Trident | 65 |
| 1 Meg VLB Cirrus Logic | 69 |

### MOTHERBOARDS
| | |
|---|---|
| 386SX/40MHz w/CPU | $55 |
| 386DX/40MHz 128K Cache w/CPU | 82 |
| 486DX/100MHz VESA Local Bus | 110 |
| 486DLC/40MHz 128K Cache, Math Coprocessor w/CPU | 145 |
| 486SLC/66MHz VESA Local Bus Math Coprocessor w/CPU | 219 |
| 486SX/25MHz w/CPU | 145 |
| 486DX2/66MHz w/CPU | 319 |
| 586DX-60/66MHz Pentium | 269 |
| 486/586 Pentium CPU Fan | 8/15 |

### CONTROLLER CARDS
| | |
|---|---|
| IDE Controller 2S/ 2P/ 1G | $12 |
| I/O Card VESA Local Bus | 20 |
| I/O 16550 U-Art | 25 |
| I/O 16550 VESA Local Bus I/O | 49 |
| Printer Card | 12 |
| Floppy IDE Controller | 12 |
| Super IDE Controller 2S/1P/1G | 13 |
| VESA Local Bus SCSI Controller | 105 |
| VESA Local Bus IDE Caching Controller | 115 |
| ISA SCSI Controller | 109 |
| ISA IDE Caching Controller | 99 |
| PCI IDE Controller | 29 |
| PCI IDE Caching Controller | 199 |

### KEYBOARDS
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|---|---|
| 101 Soft Touch | $15 |
| 101 Click | 19 |
| Chicony Soft Touch 5311 | 19 |
| Chicony Click 5181 | 29 |
| Focus Click 2001 | 32 |

### CASES
| | |
|---|---|
| Mini Tower 200W P/S LED | $35 |
| Desktop 200W P/S LED | 45 |
| Medium Tower 230W P/S LED | 55 |
| Full Tower 250W P/S LED | 69 |
| Slim Desktop 200W P/S | 69 |
| Slim Workstation 100W P/S | 59 |
| 200W Power Supply | 25 |

### FLOPPY
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|---|---|
| 1.44 Toshiba | $33 |
| 1.2 Toshiba | 43 |
| 1.44 TEAC | 39 |
| 1.2 TEAC | 45 |

### HARD DRIVES
| | |
|---|---|
| 170MB IDE Drive | $135 |
| 340MB IDE Drive | 185 |
| 425MB IDE Drive | 185 |
| 540MB IDE Drive | 235 |

### SCANNERS
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|---|---|
| Scanner Tray | $29 |
| Black & White OCR Genius | 75 |
| Gray Scale OCR Genius | 99 |
| Color OCR Genius | 239 |
| Genius Flat Bed Color Scanner 1200dpi Includes Interface | 599 |

### MICE
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|---|---|
| 3 Button Serial Mouse | $5 |
| Z-Nix 2 Button Mouse | 8 |
| Genius LC 2 Button Mouse | 8 |
| Mouse Pad | 1.50 |
| Microsoft Mouse | 29 |
| Trackball | 19 |
| Wrist Pad | 2.99 |

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| Hi Tuner-Allows you to watch TV w/ your computer | $89 |
| Hi Video-Video capture board | 209 |
| Easy Painter - Drawing & tracing pictures DOS + Windows | 129 |
| TV to VGA Encoder (Play Games On Big Screen TV & Video Tape Recording) | 99 |
| Combo LAN Card | 32 |
| Jumperless Novell Certified Colorado Jumbo 250 Tape Backup | 159 |
| Printer Cable 6' | 3 |
| Modem Cable RS232 | 3 |
| Computer Cover-Monitor, Desktop,Keyboard | 5 |
| Covers - 14" Monitor, Keyboard or Printers | 3 |
| Computer Stand | 1" |
| Copy Holder | 1" |
| Printer Stand | 5 |
| Disk File Case 5/10/50 | 1/3/5 |
| Keyboard Drawer Under/Top | 12/19 |
| Monitor Extension Arm: Monitor Mover w/Keyboard Holder | 29 |
| Power Center UL | 15 |
| Power Strip w/Surge Protect & Lighted Master Switch, 6 Outlets | 4 |
| Computer Wizard Computer Cleaner | 4 |
| 3.5" Disk Formatted (10 Pak) | 3.99 |
| Computer Vacuum Cleaner | 6.99 |

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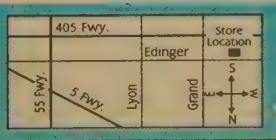


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# User Group Network

# BULLETIN BOARDS

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**Aussie BBS.** (310)425-5710, 835-4800; (714)670-6500, 537-4300, 572-8800; (818)961-1700. 18 14,400 lines. 35,000+ files, TradeWars 2002, 30 multiuser games, Internet, RIP support. Free trial. Sysop: Mike Szabados. [Exp. #130.]

**Caheunga Pass BBS.** (213)874-1720, (818)796-6096. 2400–28,800. Macintosh/IBM welcome, 800MB of shareware, friendly users, great discussions, FidoNet, online games. Free. [Exp. #129.]

**Close Encounters.** (310)947-3997, 902-9538. 24 hrs., 300/1200/2400. Local to many 213, 310, 714, 818, and 909 areas. Multiline social interaction system. [Exp. #130.]

**Compu-Net BBS.** (213)934-2812, (310)822-0038. Internet access. CompuScans, CD-ROMs, dating, adult, windows, IBM, Mac. [Exp. #128.]

**CompuShopping Net.** (818)810-8947, 842-2873; (909)464-2750. 8-N-1, 2400–14,400. Lowest price CD-ROM titles sale, adult GIFs and shareware, free download. [Exp. #128.]

**Crystal Palace.** (310)472-2598, (818)765-2171. 8-N-1, 24 hrs., 300–14,400. 15+GB of GIFs, stories, shareware on CD-ROM; Netmail; msg. database; matchmaker; games; computer store. Sysop: Daniel Mathis. [Exp. #129.]

**Hard Drive Cafe.** (213)226-9020; (805)254-1048; (815)527-9333; (818)993-5516, 985-6693. 14,400. Eight lines. Internet email and newsgroups, games, six CD-ROMs, chat, forums, more. 18+ yrs. Free trial. [Exp. #128.]

**Korea America Online.** (213)962-3634, (714)449-9373. 1200–14,400. 16 lines. Bilingual, Korean programs, information, chat, BBS in Korea list. $10/month, $80/year unlimited access. Sysop: Wayne Jeong. [Exp. #130.]

**Miller's Party Board.** (213)727-0251, 569-9191; (310)815-0117, 212-3469, 929-4304; (714)739-1060, 537-4436; (805)583-3142; (818)879-1333, 700-0627, 240-8296, 769-2302, 577-5880, 961-2458. 14,400. 32 lines. Chat, live games, 4GB library, pub areas, WorldLink, and more. 14-day free trial. Sysop: Jack Stern. [Exp. #130.]

**Modemboy BBS.** (310)659-7000, 417-5157; (818)846-3000, 996-7900. 24 hrs., 1200–9600. Gay/bi/curious, campy fun, community issues, chat, color GIFs, local events. Instant access. [Exp. #128.]

**Modem Butterfly's Connection.** (310)841-6900, 767-1010, 421-9231; (714)828-5500; (805)581-0700; (818)842-6900, 787-6900, 798-9900, 454-1919, 887-7900. 24 hrs., 1200–9600. Intelligent fun, local events, color photos of MBCers, instant access. Fee. [Exp. #128.]

**Mr. Wonderful's Lair.** (213)261-8055, (818)451-0874. 24 hrs., up to 14,400. Internet, echomail, games, shareware, adult, 12 CDs. Free 14-day account. Sysop: Mr. Wonderful. [Exp. #130.]

**Pathway BBS.** (714)741-0900, (408)956-5600, (503)226-2665. 8-N-1, 24 hrs., 14,400. 16 lines. Seven CD-ROMs, live chat, games, adults only. Sysop: Robert Johnson. [Exp. #128.]

**Prism.** (310)799-0380; (714)454-9242, 638-7249. 8-N-1, 24 hrs., 300–28,800. 32 lines, 4.5GB. Internet, MajorNet, TradeWars 2002, adult areas, social events. Instant access. [Exp. #130.]

## 213

**BBS.** (213)934-6026. 24 hrs., 1200–9600. Message center, bulletin boards, horse racing data. Type in: FREE (ID) CALLER (password). [Exp. #130.]

**The Career Network BBS.** (213)629-1472, 629-5119. 8-N-1, 7:30 am–1:30 pm, 1200/2400/9600. Hundreds of JOBS! throughout the US; your resume can reach 200+ employers monthly. Sysop: Steven McCormick. [Exp. #130.]

**Chastity Realm.** (213)480-0165. 8-N-1, 24 hrs., 14,400. Great files, great subs, great users, great sysop. [Exp. #128.]

**The Death Star BBS.** (213)541-0618. 24 hrs., 28,800. Full Internet access, FidoNet, 2.1GB, online games. $8/month for full Internet. Sysop: Joseph Haupt. [Exp. #128.]

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# BBS Spotlight

By John Wolcott

## The Electronic Coffeehouse

Advanced word processing and artistically oriented software applications have spawned a new breed of computer composers. Southern California coffeehouses have become a popular outlet for these folks to share their ideas and talents. Addressing these same needs electronically, CafeXpresso BBS allows users with creative flair to mingle online.

Billed as "The Information Side Street," CafeXpresso is located in Alta Loma and has been up and running for four months. Joe Valentinetti administrates most duties on the system while his son, Ben Altavilla, helps users with online games. Valentinetti commented, "The philosophy here is that a computer is like a car. You don't have to know what's under the hood to use it successfully. We strive to speak in plain language and offer a BBS that's easy to use." Sysops present an atmosphere much like a side street cafe, where you come in, kick off your shoes, settle in with a cup of java, and relax.

Two incoming phone lines are supported by an IBM/PC-compatible 386 computer with CD-ROM and 2400 baud modems. MajorBBS v6.21D is used to run the BBS, supporting both ANSI graphics and Ripterm. Ripterm, which is available for download, is a communications package that allows you to navigate the BBS using your mouse. System features include communication with other users, online games, a file library, submission of your creative works, and an information center.

After connecting to CafeXpresso, you will encounter a pause with a blank screen. Don't panic. The BBS wants you to press the "ENTER" key before it starts the log-on process. Answers to a minimal amount of registration questions will put you into a "trial user" status with three weeks of unlimited access. There will be a time constraint of forty-five minutes per day until you actually subscribe.

Communication with other users is available through chat with another connected user, participation in discussion forums, and email. Chatting with other connected users is a great way to meet new friends. Discussion forums run the gamut of topics, letting you express your ideas and learn from others. Email allows you to exchange messages with a specific user as well as exchanging files by attaching them to the messages.

Online games are of the intellectual type with the main attraction being Zorgon's Adventure, a text-based gaming experience. Ben Altavilla will cheerfully help you find your way through this challenging adventure.

The file library features hard disk and CD-ROM access to over four thousand shareware files, primarily in the IBM/PC-compatible format with some Mac files. CafeXpresso does not accept file upload with the exception of your submitted creative talent. All files for download have been virus-scanned for your protection.

Writers online may share their works with other users as well as utilizing the BBS as a channel to the outside world. The sysop will upload submitted writings to other BBSes and post them on the Internet for the world to see.

The information center provides system information and subscription rates. The subscription rates are very modest. This BBS is a great value at $35 for a full year of creative interaction.

CafeXpresso can be reached by calling (909)944-3336 with standard modem parameters of 8-N-1. Give them a call to share in electronic coffeehouse camaraderie. ■

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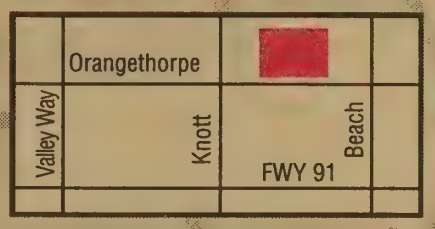
# NET COMPUTER

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* 4MB RAM, 70ns
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* 256K Cache
* 1.44MB floppy drive
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  1MB, 16 million colors
* fast 32bit VESA local bus IDE controller
* 14" SVGA monitor with .28 dot pitch
* 2 serial/1 parallel/1 game ports
* minitower
* 101 enhanced keyboard

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* 256K Cache
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* fast 32bit PCI local bus IDE controller
* 15" SVGA monitor with .28 dot pitch
* 2 serial/1 parallel/1 game ports
* minitower
* 101 enhanced keyboard

| | Regular | CASH |
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| Pentium 60MHz | $1725 | $1650 |
| Pentium 66MHz | $1875 | $1800 |
| Pentium 90MHz | $2250 | $2175 |

(90MHz M/B is made by INTEL)

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**regular/CASH**

### Motherboards

(0K, with CPU)
Pentium 90MHz CPU w/PCI motherboard, 256K cache ..... $1200/$1150
Pentium 66MHz CPU w/PCI motherboard, 256K cache ..... $875/$850
Pentium 60MHz CPU w/PCI motherboard, 256K cache ..... $730/$700

386 DX 40MHz with 64K ..... $120/$115
386 SX 40MHz ..... $80/$75

1MB SIMM modules ..... CALL
4MB SIMM modules ..... CALL

### Add-On Cards

**PCI Local Bus Add-on Boards**
Diamond *Viper SE* PCI, 2MB VRAM (16.7 mil. colors) ..... $300/$280
Cirrus Logic PCI, 5428 chipset, 1MB RAM (16.7 mil. colors) ..... $115/$105
IDE hard drive controller ..... $35/$30

**VESA Local Bus Add-on Boards**
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IDE controller with AT I/O, 2 serial, 1 parallel, 1 game ports ..... $30/$28

**regular/CASH**

**ISA Add-on Boards**
Trident SVGA card with 1MB, (16 mil. colors) ..... $60/$57
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16bit NE2000 Ethernet card, 10BaseT ..... $65/$60
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### Monitors

14" Impression 3 SVGA monitor, .28dp, 1024x768 ..... $220/$210
14" Impression 3+ SVGA monitor, .28dp, 1024x768 N.I. ..... $240/$235
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### Floppy & Hard Drives

TEAC 1.2MB 5 1/4" FDD ..... $50/$48
TEAC 1.44MB 3 1/2" FDD ..... $42/$40
TEAC 2.88MB 3 1/2" FDD ..... $110/$105

Samsung 1.2MB 5 1/4" FDD ..... $46/$44
Samsung 1.44MB 3 1/2" FDD ..... $39/$37

420MB, Connor CD-420A IDE HD (14ms) ..... $215/$205
540MB, Connor IDE hard drive ..... $265/$255
250MB, Conner 250 Tape Backup System ..... $155/$150

**regular/CASH**

Western Digital 1 GIG IDE hard drive ..... $565/$550

Panasonic *Double Spin* CD-ROM drive (300K/s, 320ms) ..... $155/$145

### Printers

Hewlett Packard DeskJet 520 InkJet printer ..... $300/$289
Hewlett Packard DeskJet 560C Color InkJet printer ..... $575/$550
Hewlett Packard LaserJet 4+ ..... $1425/$1375
Hewlett Packard LaserJet 4P ..... $945/$920
Hewlett Packard LaserJet 4L ..... $650/$630

### Keyboards

Lite-On 4100 101 enhanced keyboard (non-click) ..... $22/$19
Focus 2001 101 keyboard (click, hard dustcover) ..... $42/$39
KME keymouse 101 keyboard (click, trackball built-in) ..... $62/$59

### Cases

CPU cooling fan (INTEL 486) ..... $15/$13
Mini-tower case (200w ps) ..... $38/$35
Mini-desktop case (200w ps) ..... $65/$62
Mid-tower case (230w ps) ..... $60/$55
Full-tower case (250w ps) ..... $80/$75

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- Pair of Speakers
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- Pair of Speakers
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- Mavis Beacon,
- Chess 3000

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386DX-40 System
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**UPGRADES W/SYSTEM**

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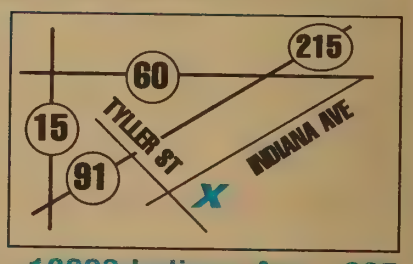


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**LA Collect.** (213)661-6299. 8-N-1, 24 hrs., up to 14,400. Civic network, serious talk, new BBS technology, all welcome. Free. Sysop: Roger Eaton. [Exp. #128.]

### 310

**At Last BBS!** (310)832-7702. 24 hrs., 1200–14,400. Mulitnode, general family-oriented, 8000+ files, CD-ROM. Free. Sysop: Robert McAlpin. [Exp. #130.]

**Best & Worst #2.** (310)927-5016. C64 & C128 specific; Bell Gardens. Sysop: Curtis Boatright. [Exp. #130.]

**The Bizopps Connection.** (310)677-7034. 8-N-1, 24 hrs., up to 14,400. Provides listings of business and franchise opportunities; place your ads; and more. Sysop: Lawrence C. Toliver. [Exp. #129.]

**CircusMaximus BBS.** (310)787-1469. 2400/9600. SDN, SDS, FidoNet, Fernwood-OS/2 file areas, Internet email, Usenet news, ISDN. Free trial. Sysop: David Lord. [Exp. #128.]

**Dejavu BBS.** (310)218-3561, 218-3562. 8-N-1, 24 hrs., 2400/14,400. Files, games, msgs., email, chat, Asian guys and gals welcome. Free. [Exp. #128.]

**The Edison BBS.** (310)440-3825. 8-N-1, 300–14,400. Computer BBS for independent inventors. Password: Help. [Exp. #128.]

**Fantasia BBS.** (310)986-9705. Up to 28,800. Free Internet email/newsgroups, 4+GB, many CD-ROMs, adult echomail, ASP, FILEbone. Sysop: Brian Andrus. [Exp. #128.]

**Fantasy FX BBS.** (310)595-5169. 8-N-1, 24 hrs., up to 14,400. Fun and games, DOOM support files, Net mail, two CD-ROMs online. Free. [Exp. #129.]

**France OnLine™.** (310)441-7280. 24 hrs., Eight lines. French-speaking BBS. Chat, forums, news from France, calendar. $5/mo. [Exp. #130.]

**Independent Filmmakers Forum.** (310)425-0012. 8-N-1, 24 hrs., 2400/9600/14,400. Online networking for independents, forums, chat, job listings, free screening passes, and more. Free trial. Sysop: Philip Matuzic. [Exp. #130.]

**Interactive Shopping Network.** (310)445-1500. 24 hrs., 1200–14,400. Shop for computer hardware and software, furniture, classifieds with photos. Free except classifieds. [Exp. #130.]

**La Mirada's The Modems Delight BBS.** (310)944-1221. 24 hrs., 1200–16,800. Multi-interest files, doors, games, fun, Qmail4, echomail, FidoNet, RimeNet. Sysop: Ron Dishon. [Exp. #130.]

**Mac-Hac'ers BBS.** (310)549-9640, 549-9664. 8-N-1, 24 hrs., 300–16,800. All computers, six CD-ROMs, jokes, technical area, international mail, large graphics area, much more. Sysop: Bud Grove. [Exp. #128.]

**New World Order BBS.** (310)978-0024. 24 hrs., 300–28,800. Technical, schoolwork help, OJ's trial, online games, helpful sysop. Free. Sysop: Richard Schwartz. [Exp. #129.]

**Oasis BBS.** (310)462-1239. 8-N-1, 24 hrs., 2400/14,400. Public forums on various topics from Russia to ancient Greek. Free. [Exp. #129.]

**One World.** (310)372-0987. Ecology, gardening, health, alternative news, international network. Free. [Exp. #129.]

**Original Apple Corps BBS.** (310)454-4660. Apple II support. Sysop: Ed Molina. [Exp. #129.]

**Servant Christian BBS.** (310)371-2770, 371-3130, 371-0251. 14,400. Three lines. A modem ministry for both Macintosh and Windows users. [Exp. #128.]

**South Bay Apple Computer Club BBS.** (310)538-1913. 8-N-1, 24 hrs., 14,400. Apple II support and free

*Continued on page 169*


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# BULLETIN BOARDS cont.

*Continued from page 165*

Internet access. No fee. [Exp. #128.]

**South Bay Apple Mac User Group BBS.** (310)792-8083, 792-0264. 24 hrs., 300–9600. FirstClass. Administrator: Dr. Dave. [Exp. #128.]

**Starfleet HQ II BBS.** (310)422-8178. 8-N-1, 24 hrs., 300–28,800. Online games, VNET and other networks, Star Trek news/discussions. No fees. Sysop: Rodney Palmer. [Exp. #128.]

**Stavromula Beta.** (310)322-6963,11,11. 8-N-1, 24 hrs., 14,400. Intelligent conversation, unique online games, AlterNET hub, Project Insomnia Software. Free. [Exp. #129.]

**Upper Transylvania BBS.** (310)515-6843, 515-6953. 24 hrs., 1200–28,800. Seven PC-oriented CDs online, FishNet Christian Network hub. Free. Sysop: Ron Hoffman. [Exp. #130.]

**Why Not BBS.** (310)436-1311. 2400–14,400. Five lines. Four CDs, shareware, GIFs, games, chat. Great for beginners. Sysop: David A. Scott. [Exp. # 129.]

**Xchange-Net.** (310)452-3374. 8-N-1, 300–9600+. All classified ads; a swapmeet of detritus, flotsam, scrap, and anything this side of Jupiter. Free. Sysop: Rex Brains. [Exp. #129.]

### 619

**PD-SIG BBS.** (619)749-2741. 8-N-1, 24 hrs., 28,800. SIGs for most all computer types, download first call. Free, open system. Sysop: B.J. Nash. [Exp. #128.]

### 714

**1% Homeseller BBS.** (714)990-4802. 8-N-1, 24 hrs., 2400/14,400. Homes for sale in Southern California. Free. [Exp. #128.]

**Alpha/NET BBS.** (714)830-0402. Up to 16,800. Multinode, hub for many nets, doors, adult areas avail., 9GB, CD-ROM. Sysop: Jamie Wilson. [Exp. #129.]

**Alzheimer's BBS Of O.C.** (714)731-3045. 8-N-1, 24 hrs., 2400. Day care, support groups, respite care services, text files. Free. Sysop: Vladimir Ostapowicz. [Exp. #128.]

**The Aquarium/2.** (714)434-1880. 8-N-1, 24 hrs., 300–28,800. OS/2, play-by-mail games, CD-ROM, multinode. Free. [Exp. #128.]

**The Big Blue Mac.** (714)493-4779. 8-N-1, 24 hrs., 1200–14,400. Internet, Intelec, and Rime conferences; IBM and Mac file bases. [Exp. #128.]

**Calypso Online Services.** (714)366-1355. 24 hrs., 28,800. 25 lines. An exciting new board including Internet and adult files. Free trial period/subscription. [Exp. #130.]

**The CAT BBS.** (714)979-8333. Santa Ana. Sysop: Bob Blakeley. [Exp. #130.]

**Check Six BBS.** (714)362-8299. 8-N-1, 1200–28,800. Five nodes. Flight simulation msgs. and files, Internet, Usenet, SimNet. Limited free access. Sysop: Patrick Gost. [Exp. #129.]

**Cloud Lake BBS.** (714)768-3585. 8-N-1, 24 hrs., 2400–28,800. 30,000+ files: woodcarving, Windows, DOS, games, astronomy, gardening, programming, business, and more. Sysop: Ed Barnes. [Exp. #128.]

**Construction Online.** (714)378-4779. 8-N-1, 2400–14,400. Building products, email, forums, building permits; after 6 pm chat, games. Sysop: Kathy Weaver. [Exp. #130.]

**CWI-BBS.** (714)870-1033. 8-N-1, 24 hrs., 2400–14,400. Entire CWI disk catalog plus six CD-ROMs. Free browse, friendly chat. [Exp. #130.]

**Dizzyland.** (714)637-7657. 24 hrs., 2400–19,200. Many networks, APOGEE shareware direct file section, online games. No fee. [Exp. #130.]

**The Emerald Isle BBS.** (714)870-3050, 786-2764. 300–14,400. 25 lines. 18 CD-ROMs, chat, multiplayer games, fun and excitement. Free trial. Sysop: James Wihardja. [Exp. #129.]

**The Entrepreneur Connection.** (714)280-9556. 8-N-1, 14,400. Learn to start a business or search for businesses and franchises to buy. Free demo. Sysop: T.R. Sills. [Exp. #129.]

**Free Money Manager BBS.** (714)642-7627. 8-N-1, 1200/2400/9600/14,400. Free money manager files, online support. No fees. [Exp. #128.]

**Global BBS.** (714)373-1544. 24 hrs., 300–14,400. Political forums and organizations, worldwide VirtualNET, backpacking forums. No fees. Sysops: Chris and Jarome. [Exp. #130.]

**Good Sam BBS.** (714)957-2881. Business accounting software users group; MAS90, and others; software developers, systems analysts, more. Sysop: Michael De Tomaso; voice, (714)751-2349. [Exp. #129.]

**Graphics Development Association.** (714)651-1812. 8-N-1, 24 hrs., 14,400. Graphics, BMP, adult GIF, CAD, POV, ANSI, PCX. Free and subscription. [Exp. #128.]

**Imagine-NET.** (714)660-7738. 8-N-1, 24 hrs., 14,400. Two lines. First Class Mac/Windows BBS, OneNet, four user groups, shareware. Free. Sysop: Douglas Nottage. [Exp. #130.]

**Infinity BBS.** (714)898-3236. 8-N-1, 24 hrs., 300–14,400. Internet, Usenet, satellite fed shareware, games, teleconference, call today! Sysop: Dan Minear (suitcase). [Exp. #129.]

**InfoMat BBS.** (714)492-8727. 24 hrs., 2400–14,400. Largest selection of online magazines around; P&BNet, Intelec, RIME, RaceNet, ROCIEnet, and JOBNet email. [Exp. #129.]

**Junior Flight Deck BBS.** (714)549-0472. Santa Ana. Sysop: Ted Stein. [Exp. #130.]

**MacShak BBS.** (714)373-0656. 24 hrs., 2400. Newly expanded Mac, amateur radio, consumer, and adult interests. Sysop: Dude B Narley. [Exp. #129.]

**The Midnight Mission BBS.** (714)848-6808. 8-N-1, 24 hrs., 1200–14,400. Large game and XX GIF file areas. Full access with call back. Sysop: Marty Strech. [Exp. #128.]

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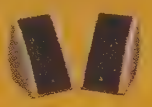

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**Salt Shaker BBS.** (714)850-1539. ChristNet, Internet, doors, files, Christian/family oriented. Basic services free. Sysop: Jeffrey Haney. [Exp. #128.]

**TwiLight Hills BBS.** (714)898-8004. 8-N-1, 24 hrs., 14,400. Multiline adult, chat, matchmaker, games, files. Free trial, low rates. Sysop: Lady Vixen, Lord Stryder. [Exp. #129.]

**The Viewlink BBS.** (714)650-4612. 14,400. Four lines. Latest shareware games, hottest adult GIFs, six CD-ROMs. 28¢/hour. Sysop: Terry Andrews. [Exp. #130.]

**Vivid Image BBS.** (714)669-8823. 8-N-1, 24 hrs., up to 14,400. Shareware, UFO, needlework, crochet, games, files, doors, CD-ROMs, classified, matchmaking. Free access. Sysop: Veno Dos Santos. [Exp. #129.]

### 818

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**The Galaxy-II BBS.** (818)706-0130. Up to 28,800. Four lines. Supports PBM game of Galaxy-II. Corridor 7, Doom, 45 friendly door games, more. Free. Sysop: Brett Tondreau. [Exp. #129.]

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**Hottips BBS, Glendale.** (818)248-3088. 1200–28,800. Five lines. 11,000+ files, 1.7GB online, QWK mail door, professional emphasis. RIME Network. Sysop: Michael D. Callaghan. [Exp. #128.]

**International TradeLine.** (818)843-4102. 24 hrs., 2400–14,400. International trade, NTDB/FTI access, market research, computer software, business contacts. [Exp. #130.]

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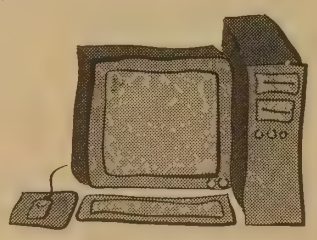
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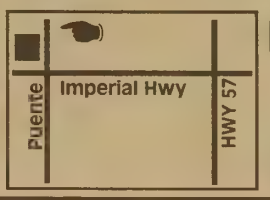


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# Resources

# USER GROUPS

## AMIGA

**Amiga Users Group Of Long Beach.** Meetings: 1st Thurs., 7:00 pm, Fire Station Bldg., 5373 E. Second St., Belmont Shores. All persons with an interest in the Amiga computer welcome. Free. [Exp. #131.]

**ATUG—San Gabriel Valley.** Meetings: last Tues., 7:00 pm, Michelangelo's Pizza, San Dimas; 3rd Sat., 11:00 am, 1st Southern Baptist Church, Temple City. Call: Steve Ward, (818)285-6424. [Exp. #132.]

**LAAUG—Los Angeles Amiga User Group.** Meetings: 3rd Wednesday, 7:30 pm. Veteran's Memorial Auditorium, Overland Ave. & Culver Blvd. Super SIGs, PD disks. Call: Gene Edwards, (213)384-8711. LAAUGLine BBS: (213)387-1002. [Exp. #129.]

**SFVAUG—San Fernando Valley Amiga User Group.** Meetings: 2nd Tues., 7:00 pm, "The Meeting Place" off the Food Court in Fallbrook Mall. Continuing the exploration of the Amiga in the area's most active Amiga Orphan support group. Call: Ernie, (805)526-8252. [Exp. #130.]

## APPLE

**Champions Of The Mac Proletariat (CHOMP).** Meetings: 4th Thurs., 7:30 pm, Cal Poly Pomona. Question and answer, raffle of useful software, opportunity to purchase disks. Call: Craig Richards, (909)985-7385 or Mitch Cohen, (909)598-5766. [Exp. #132.]

**Original Apple Corps.** Meetings: 2nd Sun., West LA area. Apple II and Mac user group. Support for beginners through experts. Call: Fred Duffy, (310)450-3336. [Exp. #132.]

## ATARI

**All Computer Association Of Orange County.** Meetings: 2nd Sun., 1:00 pm, Fullerton Savings, 12860 Euclid Ave., Garden Grove. Supporting Atari, Macintosh, PC, and other computer systems. Call: (714)960-6111. [Exp. #130.]

**ATESIG—Atari 8-Bit SIG.** Meetings: 145 Surf Pl., Seal Beach. Cooperative user group for model railroad applications. Call: (310)430-5433. [Exp. #130.]

**South Bay All Computer Enthusiasts.** Meetings: 2nd Tues., 7:30 pm, VFW Hall, 1865 Lomita Blvd., Lomita (1 block W of Western). All skill levels. Call: Danny or Mary, (310)834-0040. [Exp. #128.]

## COMMODORE

**Commodore Helpers of Long Beach.** Meetings: 2nd Sat., 9:00 am., Community Presbyterian Church, 6380 Orange Ave., Long Beach. Call: Bill Davies, (310)599-1913. [Exp. #133.]

**Commodore Technical Users Group (C=TUG).** Meetings: 4th Sunday, 1:00 pm, Senior Citizen Center, 170 S. Olive Rd., Orange. Public domain library, documents library, and magazine. Software and hardware help. Call: Lou Palush, (714)532-1802. [Exp. #133.]

**Orange County Commodore Club.** Meetings: 4th Sat., 11:00 am, Costa Mesa Public Library, 1855 Park Ave., Costa Mesa. Call: Mike Moore, (714)668-9715. [Exp. #133.]

**South Bay Commodore Users Group.** Meetings: 3rd Thurs., 7:00 pm, SCE Generating Station, 1100 Harbor Dr. (across from King Yacht Harbor), conference room, Redondo Beach. Support for 64/128 computers; receive or exchange information on programs, applications, or hardware. Call: Dave, (310)324-8357. [Exp. #130.]

**Southern California Commodore Users Group.** Meetings: 3rd Tue., 7:00 pm, Nazarene Christian School, Rm. 18, 15000 Studebaker Ave., Norwalk. Call: Bill Davies, (310)599-1913. [Exp. #133.]

## CORELDRAW

**CorelDRAW User Group (independent).** Meetings: 2nd Mon., 7:30 pm, Jolly Roger Hotel, 2904 Washington Blvd., Marina Del Rey. Speakers on design and printing, CorelDRAW tutorials, and favorite shareware. Call: Michael, (310)545-1478. [Exp. #130.]

## EPSON

**Epson UG/Orange County.** QX, PX, CP/M, VALDOCS—support, tech, periodical & disk library, parts. Call: (714)893-3305 or (310)430-4731. [Exp. #130.]

## FINALE

**Finale User Group (FUGUE).** Meetings: 4th Wed., 7:30 pm, Electronic Music Box, 14947 Ventura Blvd., Sherman Oaks. Tips and problem solving. Bring files on disk. SIG of LAMG. Call: Bonnie Janofsky, (213)658-5997. [Exp. #131.]

## IBM & COMPATIBLES

**All Computer Association Of Orange County.** Meetings: 2nd Sun., 1:00 pm, Fullerton Savings, 12860 Euclid Ave., Garden Grove. Supporting Atari, Macintosh, PC, and other computer systems. Call: (714)960-6111. [Exp. #130.]

**Cedar Village Users Group.** Meetings: 2nd Sun. (3rd if 2nd is holiday), 3:00 pm, Speakers, software, BBS, and more. Contact: Tony Barnes, P.O. Box 1141, Bloomington, CA 92316, or modem (909)356-1269. [Exp. #131.]

**Greater South Bay PC User Group.** Meetings: 2nd Thurs., 7:30 pm, Torrance Recreation Center located behind the main city library, Torrance. Visitors welcome. Email: (310)335-2799. [Exp. #131.]

**Long Beach IBM PC And Compatibles Users Group.** Meetings: 3rd Wed., 7:00 pm, Masonic Temple, 5155 E. Pacific Coast Hwy., Long Beach. Novice and experienced welcome, BBS, public domain library, newsletter, SIGs. $25/year, $35 for families. Call: Jim Wells, (310)439-7114. [Exp. #132.]

**Los Angeles Computer Society.** Meetings: 2nd Tues., 7:00 pm, Culver City High School, 4401 Elenda St., Culver City. Presentations from prominent software and hardware developers and Q&A sessions. Call: (310)471-2726. [Exp. #132.]

**Orange County IBM PC Users Group.** Meetings: 2nd Tues., 6:30 pm. Speakers, software, newsletter, BBS. Open to public, all welcome. Call: (714)990-0580. [Exp. #130.]

**Pasadena IBM Users Group.** Meetings: 3rd Wed., 7:00 pm, 2184 N. Lake Ave., Altadena. Speakers on hardware/software, SIGs, library, newsletter, and BBS. Call: Steve Bass, (818)791-1300. [Exp. #132.]

**Software Users Group Of O.C.** Meetings: monthly in Irvine. Serves IBM compatible users who are new to computers. Call: (714)721-8751 (modem). [Exp. #129.]

**South Bay All Computer Enthusiasts.** Meetings: 2nd Tues., 7:30 pm, VFW Hall, 1865 Lomita Blvd., Lomita (1 block W of Western). All skill levels. Call: Danny or Mary, (310)834-0040. [Exp. #128.]

**Southern California Computer Society.** Meetings: 4th Tues., 7:00 pm, Farmers & Merchants Bank, 12535 Seal Beach Blvd., Rossmoor. We welcome all who are interested in computers; BBS and newsletter. $15/yr. Call: Hank Burwash, (310)596-9670. [Exp. #132.]

**Thousand Oaks Personal Computer Club (TOPCC).** Meetings: 4th Thurs., 6:30 pm, Goebel Senior Adult Center, 1385 E. Janss Rd., Thousand Oaks. Call: (805)494-8675. [Exp. #133.]

**TUG-NET.** Meetings: First four Thurs., 7:00 pm, Glendale Federal Bank, 7119 Topanga Cyn. Blvd., Canoga Park. Ample parking, visitors free. Call: (818)249-1629 or 884-9441. [Exp. #132.]

**Valley Computer Club.** Meetings: 1st Wed., 7:00 pm, Burbank Board of Realtors Bldg., 2006 W. Magnolia, Burbank. BBS, PD library, SIGs, newsletter. All welcome. Fee, $4. Call: Estella McClintock, (818)848-1948 or Grayce Hruda, (818)842-3707. [Exp. #131.]

**Valley IBM Compatible Uses Group (VICUG).** Meetings: 3rd Fri., 7:00 pm, State Bldg., 6150 Van Nuys Blvd., Van Nuys. Call: Harry Tischler, (818)997-1470. [Exp. #131.]

## KAYPRO

**KAYOS Kaypro User Group.** Meetings: 4th Mon. of even months, 6:00 pm, El Segundo Library, Mariposa and Richmond streets. Call: (310)379-8339. [Exp. #131.]

## MACINTOSH

**All Computer Association Of Orange County.** Meetings: 2nd Sun., 1:00 pm, Fullerton Savings, 12860 Euclid Ave., Garden Grove. Supporting Atari, Macintosh, PC, and other computer systems. Call: (714)960-6111. [Exp. #130.]

**Champions Of The Mac Proletariat (CHOMP).** Meetings: 4th Thurs., 7:30 pm, Cal Poly Pomona, grey building near administration building, rm. P2-7. Call: Craig Richards (909)985-7385 or Mitch Cohen, (909)598-5766. [Exp. #132.]

**Los Angeles Macintosh Group (LAMG).** Meetings: 3rd Tues., 7:30 pm, Dept. of Water & Power, 111 N. Hope St. Free meeting, everyone welcome. Call: (310)278-LAMG. [Exp. #128.]

**Original Apple Corps.** Meetings: West LA area. Apple II and Mac user group. Support for beginners through experts. Call: Fred Duffy, (310)450-3336. [Exp. #128.]

**South Bay Apple Mac User Group.** Meetings: Last Wed., 8:00 pm, El Camino College, MCSC Rm. 100, 16007 Crenshaw Blvd., Torrance. Newsletter, PD library, demos, and raffles. Call: (310)644-3315. [Exp. #131.]

**Southern California Macintosh Owners/Users Group (SMOG).** Meetings: usually 2nd Sat., 10:00 am, Western Digital Bldg., off 405 Freeway at Irvine Center Dr., Irvine. Speakers, product demos, Q&A, PD disks. All skill levels. Call: Dani Maloy, (909)698-7737. [Exp. #132.]

## POWERBUILDER

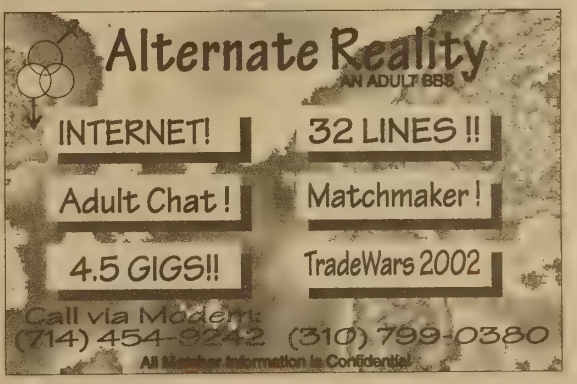
**Los Angeles PowerBuilder User Group.** Meetings: 1st Tues., 6:00 pm, Sony Entertainment, 3400 Riverside Dr., Burbank. [Exp. #131.]

## PROGRAMMING LANGUAGES

**The Software Toolsmiths.** Meetings: Last Sat., 10:00 am, Joslyn Center, 339 Sheldon St., El Segundo (except Nov. and Dec.). Discussions and tutorials on programming: C++, Forth, J, Smalltalk, algorithms, etc. Neophytes welcome. Call: John LuValle, (818)797-1820, or Howard Rogers, (310)532-3342. [Exp. #131.]

## UNIX

**UUASC, The UNIX User's Association Of Southern California.** Meetings: 2nd Mon., 7:00 pm, New Horizons Computer Learning Center, 1231 E. Dyer Rd., Santa Ana. Geared to professional and amateur users of all flavors of UNIX, including Linux. Call: Larry, (714)526-4347. [Exp. #130.]



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- 3VL Bus, ZIF, Green Motherboard
- Built-in 80487 Math Co-Processor
- CPU Cooling Fan w/Heatsink
- 256K Cache, AMI BIOS
- 4MB RAM, 70ns (Exp. to 128MB)
- 1.44MB 3.5" TEAC Floppy
- 425 MB IDE Hard Drive
- 2 Serial, 1 Parallel, 1 Game
- 32 Bit Local Bus IDE Controller
- 32 Bit Local Bus Video w/1MB (Exp. to 2MB) (Resolution up to 1280 x 1024)
- 14" Non-Interlaced SVGA .28dp LR
- 101 Enhanced Keyboard
- Digital Medium Tower w/230PS

**VL486DX-33.....$950**
**VL486DX2-66.....$995**
**Pentium – 66 w/512K...$1455**

## Intel PENTIUM
### PCI SuperFAST

- Intel PENTIUM P5 Processor
- PENTIUM Cooling Heatsink w/Fan
- Built-in Math Co-Processor
- 256K Cache, AMI BIOS
- 8MB RAM, 70ns (Exp. to 128MB)
- 1.2MB & 1.44MB TEAC Floppy
- 540MB SCSI-2 Fast Hard Drive
- 2 Serial, 1 Parallel, 1 Game Port
- PCI SCSI-2 Controller
- PCI, ATI Windows Accelerator w/2MB
- 15" Non-Interlaced SVGA .28dp Digital
- 101 Enhanced Keyboard
- Digital Medium Tower w/230PS

**PCI Pentium-66 ....$1945**
**PCI Pentium-90 ....$2195**

## BEST BUY!

- 128K Cache, AMI BIOS
- 4MB RAM, 70ns
- 1.44MB TEAC Floppy
- 212MB IDE Hard Drive
- 2 Serial, 1 Parallel, 1 Game
- 14" SVGA 1024 x 768 .39dp
- SVGA Video Adapter, 512K Max. Resolution 1024 x 768
- 101 Enhanced Keyboard
- Digital Mini Case w/230PS

**AMD 386DX-40MHz....$695**
**Intel 486SX-33MHz .....$755**
**Intel 486DX-66MHz .....$875**
**ADD 2X Multimedia Kit for Only .....$220**

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## UPGRADES

| | |
|---|---|
| 8MB (Total) from 4MB | $140 |
| 16MB (Total) from 4MB | $375 |
| 425MB from 212MB | $40 |
| 730MB from 425MB | $150 |
| Fax/Modem (14400) | $75 |
| 250MB Tape Backup Drive | $165 |

**MULTIMEDIA UPGRADE KIT**

| | |
|---|---|
| 2X Panasonic Package (MCD Sound Card, 12 CD Titles, Speakers) | $250 |
| 3X NEC 510 SCSI-2 | $575 |
| 4X TEAC 55A SCSI-2 | $650 |

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- All Software Sales are Final.
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- We Accept Government & University P.O.'s.

## COMPONENTS

***Memory:***

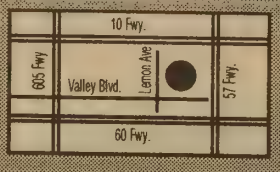
| | |
|---|---|
| 1MB SIMM, 70ns | $36 |
| 4MB SIMM, 70ns | $135 |

***Vesa Local Bus Motherboard:***
256K Cache, 3VLB, ZIF, Green, AMI BIOS

| | |
|---|---|
| • board only w/o CPU | $95 |
| • with Intel 486DX-33 | $250 |
| • with Intel 486DX2-66 | $295 |
| PCI, 486DX2-66 Intel CPU | $395 |
| PCI, Pentium 66 Intel CPU | $765 |
| PCI, Pentium 90 Intel CPU | $995 |
| PCI/VLB IDE + IO | $35/$18 |
| PCI/VLB Windows Acc. w/1MB | $95/$65 |

***Hard & Floppy Drives:***

| | |
|---|---|
| TEAC 1.2MB 5.25"/1.44MB 3.5" | $45/$35 |
| 212MB/425MB IDE | $155/$195 |
| 730MB/1GB IDE | $345/$525 |
| 270MB/540MB SCSI Hard Drive | $195/$275 |
| 1GB/2GB SCSI Hard Drive | $575/$1025 |

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# Resources

# BULLETIN BOARDS cont.

(818)792-2523. 8-N-1, 24 hrs., 2400–14,400. Shareware for free! Register online. Tech support by authors. Sysop: Chris Schurer. [Exp. #129.]

**LA Free-Net.** (818)776-5000. 8-N-1, 24 hrs., up to 14,400. 16 lines. Nonprofit community network with extensive Internet connections: newsgroups, gopher, email; and more. $10/year. Sysop: Alex Jalinous. [Exp. #130.]

**Movers & Shakers—Parkinson's Center BBS.** (818)776-2784. 24 hrs., For Parkinson's Disease patients, caregivers, families/friends of Parkinsonians, and medical community. Warm and personal. Free. [Exp. #130.]

**P-Funk Online.** (818)914-0498. 8-N-1, 24 hrs., 2400. Internet, Usenet, GIFs, games, N Azusa 4 da'funk. Still free. Sysop: jeffery@pfunkonline.com . [Exp. #129.]

**Pro-Line.** (818)730-9896. 46 lines. Chat, matchmaking, lifestyles, email, files, games, fun, and more. Free trial. [Exp. #129.]

**Reflex Connect.** (818)563-9345. 24 hrs., 14,400. Windows for Workgroups 3.11 remote access login, ID:Guest, pswd:password, Domain:RAS-TA. leave msg. in \users\regist\guest. Free. [Exp. #129.]

**Southland BBS.** (818)793-9108. 14,400. Internet email, Usenet newsgroups, Linux, MUD, and chat. Sysop: Joseph Gomez. [Exp. #130.]

**Spectrum BBS.** (818)757-3532, 764-5877. 24 hrs., 2400/14,400. Eight lines. TradeWars 2002, Mutants, other games, Internet, WorldLink, chat. Free trial. Cosysop: Mark Drapkin. [Exp. #128.]

**The Sports Club BBS.** (818)792-4752. 24 hrs., 2400–14,400. Sports messaging, sports doors, echomail networks, Internet email and newsgroups. Sysop: Tom Fota. [Exp. #128.]

**StarShine BBS.** (818)577-7827, 577-5155 (9600). Up to 9600. Five lines. Community based, chat, CD-ROM library, user uploads. Free chat to end of '94. Sysop: Didi Dey. [Exp. #128.]

**Wizardry BBS.** (818)222-4444. 2400–14,400. Online games, downloads, uploads, adult GIF and text files. Free. [Exp. #129.]

**Xtasy.** (818)330-7596. 5+GB adult GIFs, AVIs; 3+GB shareware; fantasy sport leagues w/daily stats. [Exp. #130.]

### 909

**Cedar Village User's Group BBS.** (909)356-1269. 8-N-1, 24 hrs., 14,400. Latest shareware, many online games, FidoNet, Westcoast Net. $25/yr. Sysop: Tony Barnes. [Exp. #128.]

**Classifieds Online.** (909)599-6153. 8-N-1, 24 hrs., 2400–14,400. Read and enter your private party ads FREE! Cars to computers to real estate. New ads daily. Sysop: Al Graham. [Exp. #130.]

**Dragon's Lair BBS.** (909)794-4340. 8-N-1, 24 hrs., 1200–14,400. CD-ROM, large file base, FidoNet, WWIVnet, ICEnet, many echoes, msg. bases. Free access. Sysop: Hawkeye. [Exp. #129.]

**The Empire BBS: The Next Generation.** (909)946-1448. 24 hrs., 300–14,400. Chat, all welcome, matchmaker, flower shop, files, SIGs, multiline. Free. Sysops: Tigana and Emperor. [Exp. #128.]

**For Womyn Only BBS.** (909)353-9622. 24 hrs., 2400. Women's issues oriented BBS. Email only, no files. Friendly sysop. Free. [Exp. #128.]

**Legend Graphics Online.** (909)689-9229. 24 hrs., 16 lines. Super VGA photo images, MoviePICs, huge adults-only file areas. [Exp. #128.]

# ASSOCIATIONS

**International Interactive Communication Society.** Meetings: 2nd Mon. Call: (310)313-5664. Virtual reality, multimedia, info highway issues, and more. [Exp. #133.]

**Planet Data Service Company's Desktop Publisher's Association.** Meetings: 1st Mon., 7:00 pm. Call: (818)332-0329. Support group and networking for those in DTP fields. Newsletter, referrals, and more. $50/yr. [Exp. #131.]

**Software Council Of Southern California.** Meetings: usually 4th Wed., 6:00 pm, Long Beach Marriot, Main Ballroom, 4700 Airport Plaza Dr.; also breakfasts and luncheons around SoCal. A nonprofit trade association of software development organizations and companies providing support and services to the local software industry. Call: Bill Manassero, (310)328-0043. [Exp. #132.]

## Is Your Listing Missing?

**FREE USER GROUP AND ASSOCIATION LISTINGS** are limited to the group's name, meeting information, contact name and phone number, and a ten-word description. They will be **deleted at six-month intervals** to ensure timeliness and accuracy of information.

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**You can update or renew your listings at any time. If yours is missing, send your listing information to:**

**US Mail** should go to: MicroTimes User Group, 3470 Buskirk Ave., Pleasant Hill, CA 94523. **Faxes** are welcome at (510)934-3958. **Email** can be sent to: microx@well.sf.ca.us, or MCI:MICROTIMES.

## Realizable Fantasies *continued from page 22*

talists—are so irritated by Eshoo's two-year congressional record that they are sitting on their hands. A Luntz poll reported that only 34% of the respondents felt she should have a second term; 41% didn't even know who she was or had no opinion about her; 49% prefer a moderate Republican.

### Competent Silicon Valley Representation: Ben Brink

The Republicans finally awakened and put up a viable candidate—Ben Brink of Palo Alto. He holds an MS in Operations Research from Stanford and an MBA from Harvard, compared to Eshoo's junior college two-year "degree."

Brink—a principal in a group specializing in developing software and new technologies—spent most of this decade as an independent advisor to small start-ups in computing, biotech, and environmental technologies. For a half decade before that, he was a principal in Technology Strategies and Alliances, and chair and CEO of Focus Environmental Systems, after some years in management at Convergent Technologies, and at Atari before that.

In the same period, Eshoo went from New England housewife to California county Democratic Central Committee chairwoman, to Ted-Kennedy-for-President state committee member, to county supervisor (using massive out-of-area funding). There, she sought a 28% pay raise weeks after one election and a massive platinum "retirement" parachute weeks after election to her final term. If took a first-ever successful citizen referendum to roll back her self-imposed monumental pay perk, and threat of another one to kill the "retirement" kickback.

Brink has been a net-user for several years and his campaign has a significant online presence (71740.3462@compuserve.com, bmbrink@aol.com, or bmbrink@netcom.com).

As of press deadline, Eshoo's campaign had no email address, but was happy to give her House of Representatives address (annagram@hr.house.gov)—which would be using tax-funded government facilities for her campaign communications if she did so.

(Even Ted Kennedy halted all use of his US Senate email address for outgoing messages and position statements, many months prior to the upcoming elections.)

(Full disclosure: I've known "Atherton Anna" for ten years, while she was a county supervisor, when I presided over two community associations in her district. We found that she arrogantly disregarded her constituents' interests. Once, I even furiously opposed her—knowing I couldn't win but determined that she'd not be reelected without an airing of the issues. Extensive, verifiable details available upon request.) ■

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### The Horse's Mouth

Jim Warren will be speaking at the Investigative Reporters and Editors Conference, October 6–9, Santa Clara (for working journalists; 314/882-2042) and at the Alliance for Community Media Conference, October 20–22, Palo Alto (415/949-7616).

Warren will also offer brief comments in his acceptance of the Hugh M. Hefner First Amendment Award from the Playboy Foundation, in New York City's Waldorf-Astoria, November 16 (312/751-8000).


# MEMORY

## DON'T RELY ON YOUR MEMORY, RELY ON OURS

**CACHE MEMORY**

| | 16NS | 20NS | 25NS |
|---|---|---|---|
| 32Kx8 | 6.25 | 5.25 | 4.25 |
| 128Kx8 | N/A | 39.00 | 32.00 |

**INDIVIDUAL D-RAM CHIPS**

| | 60NS | 70NS | 80NS | 100NS |
|---|---|---|---|---|
| 1MBx1 | CALL | 7.25 | 5.75 | 4.50 |
| 1MBx4 | 35.00 | 28.00 | 26.00 | N/A |
| 256 x 4 | CALL | 6.25 | 5.75 | 4.25 |
| 256 x 16 | N/A | 23.00 | 21.00 | N/A |

**SIMM MODULES (Add $5.00 for SIPP)**

| | 60NS | 70NS | 80NS | 100NS |
|---|---|---|---|---|
| 1MB x 9 (3 Chip) | 41.00 | 35.50 | 34.00 | N/A |
| 1MB x 9 (9 Chip) | 43.00 | 40.00 | 39.00 | 34.00 |
| 4MB x 9 | 152.00 | 142.00 | 138.00 | N/A |
| 16MB x 9 | N/A | CALL | N/A | N/A |

**72 PIN SIMM MODULES**

| | | 60NS | 70NS | 80NS |
|---|---|---|---|---|
| 256 x 36 | 1MB | N/A | N/A | 59.00 |
| 512 x 36 | 2MB | N/A | 89.00 | 84.00 |
| 1 x 36 | 4MB | 167.00 | 157.00 | 155.00 |
| 2 x 36 | 8MB | 334.00 | 314.00 | 310.00 |
| 4 x 36 | 16MB | 668.00 | 628.00 | 620.00 |
| 8 x 36 | 32MB | 1,336.00 | 1,256.00 | N/A |
| 16 x 36 | 64MB | CALL | CALL | N/A |

**AST MEMORY MODULES**

| MFG PT# | MODEL | UP AMT | PRICE |
|---|---|---|---|
| 500987-001 | Bravo LC, LP,MT: 4/33 & 4/25 | 2Meg | 110.40 |
| 500987-002 | Bravo LC, LP,MT: 4/33 & 4/26 | 4Meg | 149.76 |
| 500987-003 | Bravo LC, LP,MT: 4/33 & 4/27 | 8Meg | 299.52 |
| 500818-001* | Power Premi.& Premia(Exp.Brd) | 0Meg | 116.16 |
| 500780-004* | Power Premi.& Premia | 4Meg | 248.64 |
| 500780-001* | Power Premi.& Premia | 8Meg | 425.28 |
| 501159-001 | Premmia 4/33, 4/50d, 4/66d | 4Meg | 198.72 |
| 501159-002 | Premmia 4/33, 4/50d, 4/66d | 8Meg | 342.72 |
| 501159-003 | Premmia 4/33, 4/50d, 4/66d | 16Meg | 685.44 |
| 501159-004 | Premmia 4/33, 4/50d, 4/66d | 32Meg | 1248.00 |
| 501143-001 | Manhattan SMP | 16Meg | 706.56 |
| 500510-008 | Premium 386C | 4Meg | 176.64 |
| 500510-004 | Premium 386 | 4Meg | 176.64 |

| MFG PT# | MODEL | UP AMT | PRICE |
|---|---|---|---|
| 115144-001 | DeskPro 386/33,386/33L, | 2MB | 122.88 |
| 116561-001 | DeskPro 486/25, 486/33L, | 8MB | 375.36 |
| 116568-001 | DeskPro 486/50L, System Pro | 32MB | 1457.28 |
| 113131-001 | DeskPro 386/25, 386/20 | 1MB | 83.52 |
| 113132-001 | DeskPro 386/25, 386/20 | 4MB | 193.92 |
| 113646-001 | DeskPro 386S-16Mhz | 1MB | 83.52 |
| 112534-001 | DeskPro 386S-16Mhz | 4MB | 193.92 |
| 116690-001 | DeskPro 286N, 386N | 4MB | 171.84 |
| 116688-001 | DeskPro 386SX/20,25M & | 2MB | 262.08 |
| 116690-001 | DeskPro 486S/25M, 486S/16M | 4MB | 299.52 |
| 128877-001 | Portable. 486c / 66 | 8MB | 343.68 |
| 106070-001 | DeskPro 386/16 | 4MB | 336.96 |
| N/A | DeskPro 286 | 4MB | CALL |
| 149911-001 | DeskPro 5/60M, 5/66M | 8MB | 392.64 |
| 149948-001 | Prosignia PC Server 5/60 & | 16MB | 1264.48 |
| 149912-001 | & Proliant 100 5/60 | 32MB | 1248.00 |
| 149913-001 | Proliant 2000/4000 486/50 | 64MB | 2737.92 |
| 141738-001 | Prolines 386 3/25s, 3/25zs | 2MB | 88.32 |
| 141742-001 | Prolines 3/25s, 3/25zs | 8MB | 320.64 |
| 141683-001 | Prolines 486 4/25S,4/33 | 2MB | 99.84 |
| 141684-001 | ProLines 4/50,4/66,CDS, 4/33s | 4MB | 171.84 |
| 128877-001 | Prosignia PC Server & | 8MB | 343.68 |
| 149320-001 | & 486/33,486 DSX/66 & | 16MB | 624.00 |
| 149147-001 | & 486/33,486 DSX/66 & | 32MB | 1248.00 |
| 115144-001 | SystemPro 486/33 | 2MB | 121.92 |
| 116561-001 | SystemPro 486/33 | 8MB | 375.36 |

**ZENITH MEMORY MODULES**

| MFG PT.# | MODEL | UP AMT | PRICE |
|---|---|---|---|
| ZA3800ME | Z386/33,25,20,33E | 1Meg | 81.44 |
| ZA3600MK | Z386/33,25,20,33E,486/25E | 4Meg | 176.64 |
| ZA-4200-M2 | Z-486/33 ET | 4Meg | 198.72 |
| ME-432 | Z-Server 425SE, 433DE, 450DE | 4Meg | 198.72 |
| ME-102 | Z-Server 425SE, 433DE, 450DE | 8Meg | 342.72 |
| ZA-4-4 | Z-Star 433VL Model 80 | 2Meg | 88.32 |
| ME-1000 | Z-Station 450XEn | 4Meg | 176.64 |
| ME-432 | Z-Server EX, LT | 4Meg | 199.68 |
| ME-102 | Z-Server EX, LT | 8Meg | 353.28 |

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**SYSTEM UPGRADE**

| MODEL | UPGRD. | PRICE |
|---|---|---|
| COMPAQ DeskPro 386/25, 20, 16 | 486DX33 | 324.50 |
| COMPAQ DeskPro 386/25, 20, 16 | 486SX33 | 236.50 |
| IBM Model 70, 80 | 486DX33 | 324.50 |
| IBM Model 70, 80 | 486SX33 | 236.50 |
| TOSHIBA T3200 | 386SX33 | 182.00 |

CALL IN FOR OTHER MODELS & PRICES

**CPU UPGRADE**

| PRODUCT | PRICE |
|---|---|
| 486 DX 33 INTEL | 190.00 |
| 486 DX 50 INTEL | 195.00 |
| 486 DX/2 66 INTEL | 220.00 |
| PENTIUM 60 INTEL | 385.00 |
| PENTIUM 66 INTEL | CALL |
| PENTIUM 90 INTEL | CALL |

**IBM PS/1, PS/2 MEMORY**

| IBM PT # | MODEL | UP, AMP | PRICE |
|---|---|---|---|
| 30F5348 | PS/2 30-286 | 512K | CALL |
| 30F5360 | PS/2 30-286,25-286,50 MTHR BD | 2MB | 110.40 |
| 6450604 | PS/2 80-041 | 2MB | 99.84 |
| 34F2934 | PS/2 80-111,311-121,321,061,161 | 4MB | 176.64 |
| 6451060 | PS/2 80-A21,A-61,80-A31,80-111 | 4MB | 210.24 |
| 6450604 | PS/2 70-061,E61,121,50Z,55SX,65SX | 2MB | 99.84 |
| 6450604 | PS/2 P-70,55LS,,85LS,X-Sta 120,130 | 2MB | 99.84 |
| 6450606 | PS/2 70-A21,A-61,B-21,B-61,35SX,LS | 2MB | 99.84 |
| N/A | Ambra Enterprise 486 DX2/66 | 4MB | 188.16 |
| 34F2933 | PS/2 35SX,40SX,55SX,65SX,LS,,55LS | 4MB | 176.64 |
| 87F9977 | PS/2 55SX,,55LS,,65SX,,40SX,,35SX,LS | 4MB | 176.64 |
| N/A | P/S1 Investor 2155-88V | 4MB | 176.64 |
| 92F9935 | P/S1 386 SX-Model 2121 | 2MB | 94.08 |
| 92F9694 | P/S1 386 SX-Model 2121 | 4MB | 171.84 |
| 6450902 | PS/2 56,57,57SX,90,95,P-75,57SLC | 2MB | 99.84 |
| 6450902 | PS/ Value Poinr 6384, 6382 | 2MB | 99.84 |
| 6450128 | PS/ Value Poinr 6384, 6384 | 4MB | 176.64 |
| 96F9290 | PS/ Value Poinr 6384 | 4MB | 232.32 |
| 6450128 | P/S1,386SX-2133,2155,Val Pt 77 | 4MB | 176.64 |
| 6450129 | PS/2 35LS, SX , 40SX | 8MB | 353.28 |
| 6450130 | PS/2 56,57,57SX,90,95,P-75,57SLC | 8MB | 353.28 |
| 4101 | RISC System/6000 | 16MB | 1021.44 |
| 4033 | RISC System/6000 | 32MB | 1490.88 |
| 4036 | RISC System/6000 | 64MB | 2928.08 |

**DELL COMPUTER MEMORY**

| MFG PT # | MODEL | UP AMT | PRICE |
|---|---|---|---|
| 310-2505 | System 433P, 235D, 325P, 333D, P | 1Meg | 61.44 |
| 310-2507 | System 433P, 235D, 325P, 333D, P | 4Meg | 171.84 |
| 310-2625 | Power Desktop 486D, 486P | 16Meg | 624.00 |
| 310-2466 | PowerLine Workstation 420, 425, | 2Meg | 121.92 |
| 310-2467 | & 433, 450SE, 450DE/2, 466DE | 4Meg | 198.72 |
| 310-2468 | PowerLine Workstation 420, 425, | 8Meg | 360.00 |
| 310-2469 | & 433, 450SE, 450DE/2, 466DE | 16Meg | 685.44 |
| 310-2630 | T20, 25, 33, 50, 50SE/2, 66SE | 32Meg | 1370.88 |
| 310-3325 | Performance T, L, & M Series | 4Meg | 149.76 |
| 310-3327 | Performance T, L, & M Series | 16Meg | 569.28 |
| 310-3335 | Performance ME Series | 8Meg | 342.72 |
| 310-3337 | Performance ME Series | 32Meg | 1248.00 |
| 310-2340 | System316LT, 230LT, 320LX | 2MB | 110.40 |
| 310-3217 | System 320SII, 325SLI, | 2MB | 94.08 |

**APPLE COMPUTER MEMORY**

| MFG PT # | MODEL | UP AMT | PRICE |
|---|---|---|---|
| M0292LL-A | Macintosh SE/30,II,IIcx,IIci,IIsi,IIvx | 4MB | 154.56 |
| N/A | Macintosh IIci,IIsi,IIvx | 16MB | 574.08 |
| N/A | Macintosh LC-LCII,Classic II, | 4MB | 154.56 |
| N/A | Performa 200,400,430 | 8MB | 287.04 |
| M0292LL-A | Macintosh Quadra 700,900,950 | 4MB | 154.56 |
| N/A | Macintosh Quadra 700,900,950 | 16MB | 574.08 |
| N/A | Macintosh Quadra 700,900,950 | 32MB | 1203.84 |
| N/A | Macintosh Quadra 700,900,950 | 64MB | 2484.48 |
| N/A | Macintosh IIfx | 16MB | 601.92 |
| N/A | Macintosh IIfx | 64MB | 2484.48 |
| M1507LL/A | Macintosh Centris 610,650,660av | 4MB | 149.76 |
| M1508LL/A | Macintosh Centris 610,650,660av | 8MB | 292.8 |
| N/A | Macintosh Centris 610,650,660av | 16MB | 552.00 |
| N/A | Macintosh Centris 610,650,660av | 32MB | 1104.00 |

**APPLE NOTEBOOK MEMORY**

| MFG PT # | MODEL | UP,AMP | PRICE |
|---|---|---|---|
| M1033LL-A | PowerBook 100,140,145,170 | 4MB | 144.00 |
| M1033LL-A | PowerBook 140,145,170 | 6MB | 210.24 |
| M4664LL/A | PowerBook 160,180,165 | 4MB | 144.00 |
| N/A | PowerBook 160,180,168 | 6MB | 210.24 |
| M4184LL-A | PowerBook Duo 210,230 | 4MB | 204.48 |
| M4185LL/A | PowerBook Duo 210,230 | 8MB | 386.88 |
| M4664LL/A | PowerBook 165c, 180c | 4MB | 144.00 |
| N/A | PowerBook 165c, 180c | 8MB | 282.24 |

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# COMPUTiX

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| Campaq Pagermarq | N/A | 105.60 | 198.72 | 298.56 | 585.60 |
| Epson 8000 | N/A | 160.32 | 260.16 | N/A | N/A |
| Epson Action Laser II | N/A | 110.40 | 193.92 | N/A | N/A |
| Epson 8000. | N/A | 110.40 | 193.92 | N/A | N/A |
| Epson Action 1000,1500 | CALL | 83.52 | 167.04 | N/A | N/A |
| HP 2, 2D- | CALL | 127.68 | 220.80 | N/A | N/A |
| HP 3, 3D, 3P, 2P, 2P+ | 77.76 | 127.68 | 220.80 | N/A | N/A |
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| HP 3SI | 55.68 | N/A | 154.56 | 304.32 | N/A |
| HP 4SIMX | 61.44 | 99.84 | 171.84 | 343.68 | N/A |
| HP Design Jet 600, 650 | N/A | N/A | 171.84 | 343.68 | N/A |
| HP DeskJet 1200C, 1200C/PS | 61.44 | 99.84 | 171.84 | 343.68 | N/A |
| HP PaintJet XL300 | N/A | N/A | 204.48 | 359.04 | 624.96 |
| IBM Laser 4029 & 4037 | 55.68 | 94.08 | 166.08 | N/A | N/A |
| IBM Laser 4039, 4079 | N/A | N/A | 166.08 | 332.16 | N/A |
| NEC 90, 290 | N/A | 121.92 | N/A | N/A | N/A |
| NEC 95, 97 | N/A | 83.52 | N/A | N/A | N/A |
| Oki OL400 | 72.00 | 121.92 | N/A | N/A | N/A |
| Oki OL800 | 77.76 | 121.92 | 216.00 | N/A | N/A |
| Panasonic KX - P 4410 / 4430 | 77.76 | 110.40 | 220.80 | N/A | N/A |

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| 117081-003 | LTE/286 | 4MB | 182.40 |
| 121125-002 | LTE/386S/20 | 4MB | 216.00 |
| 129769-002 | LTE LITE/20,25,25C | 4MB | 216.00 |
| 129769-004 | LTE LITE/20,25,25C | 16MB | 679.68 |
| 142337-002 | LTE LITE 4/25C,4/23E,433C | 4MB | 176.64 |
| 142337-003 | LTE LITE 4/25C,4/23E,433C | 8MB | 342.72 |
| 142337-004 | LTE LITE 4/25C,4/23E,433C | 16MB | 662.40 |
| 110235-001 | SLT/286 | 1MB | 88.32 |
| 110237 001 | SLT/286 | 4MB | 242.88 |
| 118304-001 | SLT/386s/20 | 2MB | CALL |
| 118305-001 | SLT/386s/20 | 4MB | 190.08 |
| 144790-001 | Concerto 4/25, 4/33 | 4MB | 198.72 |
| 144790-002 | Concerto 4/25, 4/33 | 8MB | 381.12 |
| 113132-001 | Deskpro 386 /25 /20 | 4MB | 193.92 |
| 139497-001 | Contura 3/20, 3/25 | 2MB | 105.60 |
| 139498-001 | Contura 3/20, 3/25 | 4MB | 176.64 |
| 139499-001 | Contura 3/20, 3/25 | 8MB | 326.40 |
| 146520-001 | Contura 4/25,4/25C,4/25CX | 4MB | 166.08 |
| 146521-001 | Contura 4/25,4/25C,4/25CX | 8MB | 320.64 |

**IBM NOTEBOOK MEMORY**

| MFG PT# | MODEL | UP, AMT | PRICE |
|---|---|---|---|
| 79F0999 | PS/2 L40SX ,N33SX,PS Note | 2MB | 99.84 |
| 79F1000 | PS/2 L40SX,N33SX,Thinkpad | 4MB | 176.64 |
| 79F1001 | PS/2 L40SX,N33SX,PS Note182 | 8MB | 342.72 |
| 07G1821 | PS/2 Model N51 SLC, SX | 2MB | 105.60 |
| 07G1827 | PS/2 Model N51 SLC, SX | 4MB | 182.40 |
| 07G1828 | PS/2 Model N51 SLC | 8MB | 375.36 |
| 79F0999 | Thinkpad 710T | 2MB | 99.84 |
| 79F1000 | Thinkpad 710T | 4MB | 176.64 |
| 79F1001 | Thinkpad 710T | 8MB | 342.72 |
| 07G1420 | Thinkpad 750 model C,Cs,P | 4MB | 220.80 |
| 07G1421 | Thinkpad 750 model C,Cs,P | 8MB | 414.72 |
| 66G5109 | Thinkpad 750 model C,Cs,P | 16MB | 768.00 |
| 07G1420 | PS/2 CL57SX, Thinkpad 700 & | 4MB | 220.80 |
| 07G1421 | & 700, 720, 720C | 8MB | 414.72 |
| 79F1000 | Thinkpad 350,350c | 4MB | 176.64 |
| 60G0379 | Thinkpad 350,350c | 8MB | 375.36 |
| 92F8804 | PS/ Note N45 SL | 2MB | 83.52 |
| N/A | Ambra Treka 386SL | 2MB | 83.52 |

**TOSHIBA NOTEBOOK MEMORY**

| MFG Part # | MODEL | UP,AMT | PRICE |
|---|---|---|---|
| PC14-PA2001U | T1000LE | 4MB | 182.40 |
| PC18-PA2000U | T2000/T2000SX | 2MB | 105.60 |
| PC-PA2021U | T1950, T1950Cs, Ct, & | 4MB | 204.48 |
| PC-PA2013U | & T4600, T4600c | 8MB | 386.88 |
| PC-PA2000U | T2000SXE/2200SX & | 2MB | 105.60 |
| PC-PA2001U | & T1850, T1850C | 4MB | 182.40 |
| PC-PA2002U | T2000SXE/2200SX/T1800 | 8MB | 350.40 |
| PC-PA2004U | T4400SX, SXC, DX, & | 4MB | 204.48 |
| PC-PA2005U | & CSX, T5400SX, DX & | 8MB | 386.88 |
| PC-PA2010U | & T6400DXC, SXC | 16MB | 635.52 |
| PC-PA2012U | T4500,T4500C, & | 4MB | 204.48 |
| PC-PA2013U | & T1900,T1900C | 8MB | 386.88 |
| PC-PA2007U | T3300SL | 4MB | 182.40 |
| N/A | T3300SL | 8MB | 364.80 |
| PC13-PA8306 | T1200XE | 2MB | 116.16 |
| PC8-PA8302U | T1600 | 2MB | 105.60 |
| PC3-PA7135E | T3100 | 2MB | 105.60 |
| PC9-PA8341U | T3100e | 2MB | 116.16 |
| PC15-PA8308U | T3100SX | 2MB | 105.60 |
| PC15-PA8310U | T3100SX | 4MB | 166.08 |
| PC6-PA7137U | T3200 | 3MB | 188.16 |
| PC12-PA8307U | T3200SX | 2MB | 116.16 |
| PC12-PA8309U | T3200SX | 4MB | 188.16 |
| PC19-PA8318U | T3200SXC | 2MB | 116.16 |
| PC19-PA8319U | T3200SXC | 4MB | 188.16 |
| PC7 PA8301U | T5100 | 2MB | 110.40 |
| PC10-PA8304U | T5200/T8500 | 2MB | 132.48 |
| PC10-PA8313U | T5200/T8500 | 4MB | 370.56 |

**NOTEBOOK AND LAPTOP MEMORY**

| MFG PT # | MODEL | UP,AMP | PRICE |
|---|---|---|---|
| KAC7604/4 | ACER 780 | 4MB | 154.56 |
| KAC750C/4 | ACER 750, 750C | 4MB | 176.64 |
| MEC4/EU | Amtrad AMB-386SX | 4MB | 182.4 |
| 501255-001 | Bravo NB & Ad.Explorer | 4MB | 160.32 |
| 500814-003 | Prem Exec 386SX | 4MB | 154.56 |
| 500984-001 | Power. Exec 3/25SL, 4/25SL | 4MB | 166.08 |
| 500984-003 | Power. Exec 3/25SL, 4/25SL | 16MB | 607.68 |
| 501168-001 | AST Power Exec 4/25SL | 4MB | 193.92 |
| 500948-002 | AST Power Exec 3/25SL-C | 8MB | 314.88 |
| A808511 | Epson NB3 | 4MB | 166.08 |
| A808441 | Epson Action Note 4000 | 8MB | 238.08 |
| PC21-22 | NEC Prospeed 286,386SX | 4MB | 176.64 |
| PC31-21 | NEC Prospeed 386 | 2MB | 127.68 |
| PC31-22 | NEC Prospeed 386 | 8MB | 342.72 |
| PC43-21 | NEC Prospeed 386SX-20 | 1MB | 77.76 |
| PC43-22 | NEC Prospeed 386SX-20 | 4MB | 176.64 |
| PC47-21 | NEC Ultralite III/20,20P,25C | 2MB | 94.08 |
| PC47-22 | NEC Ultralite III/SL/25C | 4MB | 176.64 |
| PC49-21 | NEC Ultralite SL/20,20P | 6MB | 260.16 |
| OP410-4001 | NEC Ultralite Versa | 4MB | 198.72 |
| CE-67-8 | Sharp 6781,6881 | 2MB | 94.08 |
| CE-672B | Sharp 6781,6881 | 4MB | 176.64 |
| PC-PA2010U | T4400SX,SXC, T6400 | 16MB | 673.92 |
| 2569996-001 | TI Travelmate 3000 | 2MB | 84.48 |
| 2581265-001 | Travelmate 4000 Win SX/16 | 4MB | 204.48 |
| N/A | Tandy Victor 300n SX/25 | 4MB | 176.64 |
| ZA-180-71 | Zenith Super Sport 286,286E | 4MB | 171.84 |
| ZA-3250-5 | Zenith Z-Note 325L, LC | 2MB | 94.08 |
| ME-4200-1 | Zenith Z-Note 425LN, LNC | 4MB | 198.72 |
| ZA 400-4 | Zenith Z-Sport 425S | 4MB | 176.64 |

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- PCI IDE HDD Controller
- Diamond Stealth 64 PCI w/2MB
- KFC 15" 1280 x 1024 .28 NI SVGA Monitor
- 2 Serial, 1 Parallel, 1 Game Port
- 101 Keyboard
- Hi-Resolution Mouse w Pad
- Premium Mid Tower Case w/5 Drive Bays
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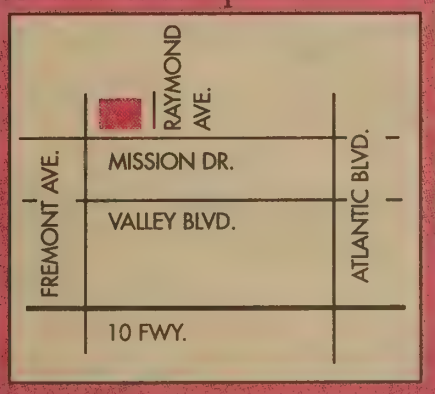


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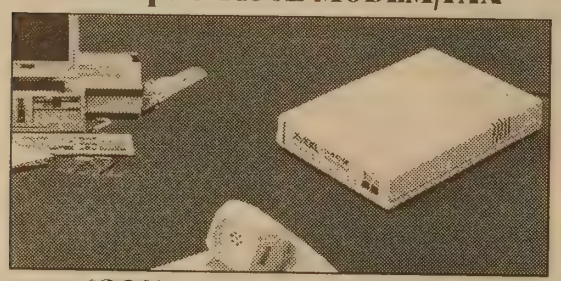

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| ViewSonic 21" | |
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| MAG 15" | 450 |
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| Fujitsu 4700-601KB | 38 |
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| Maxtor | CALL |
| Conner | CALL |
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| Adaptec SCSI 1542C | 179 |
| V-L IDE w/Cache (512K Upgrade to 16.5MB) | 125 |
| TEAC Floppy Drive (1.2M) | 47 |
| TEAC Floppy Drive (1.44M) | 37 |
| V-L IDE I/O Controller | 24 |
| TEAC 2-in-1 | 110 |
| V-L SCSI Controller | 105 |
| SmartLink 9624 Fax/Modem | 45 |
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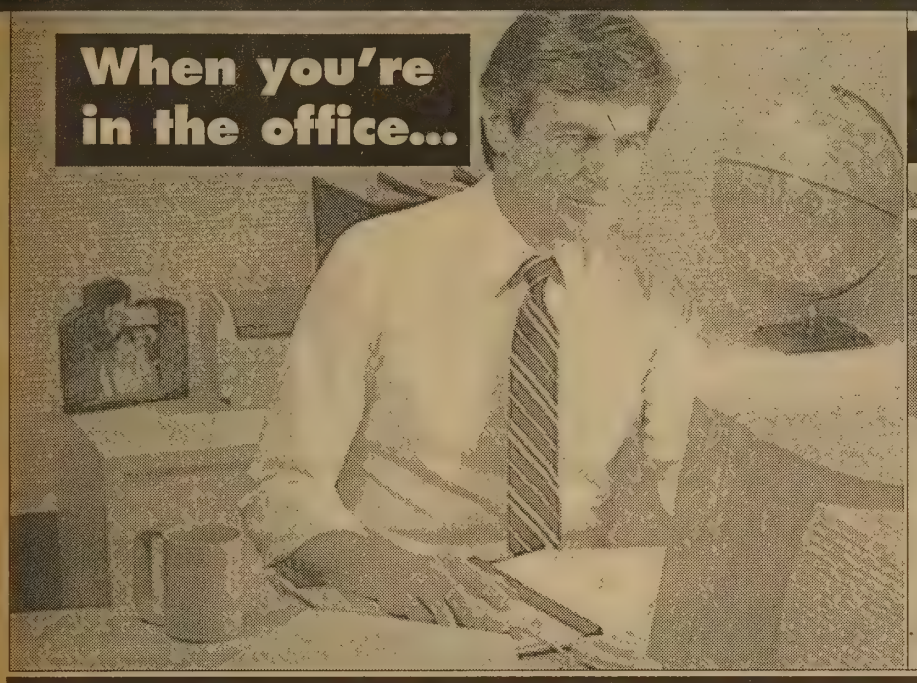


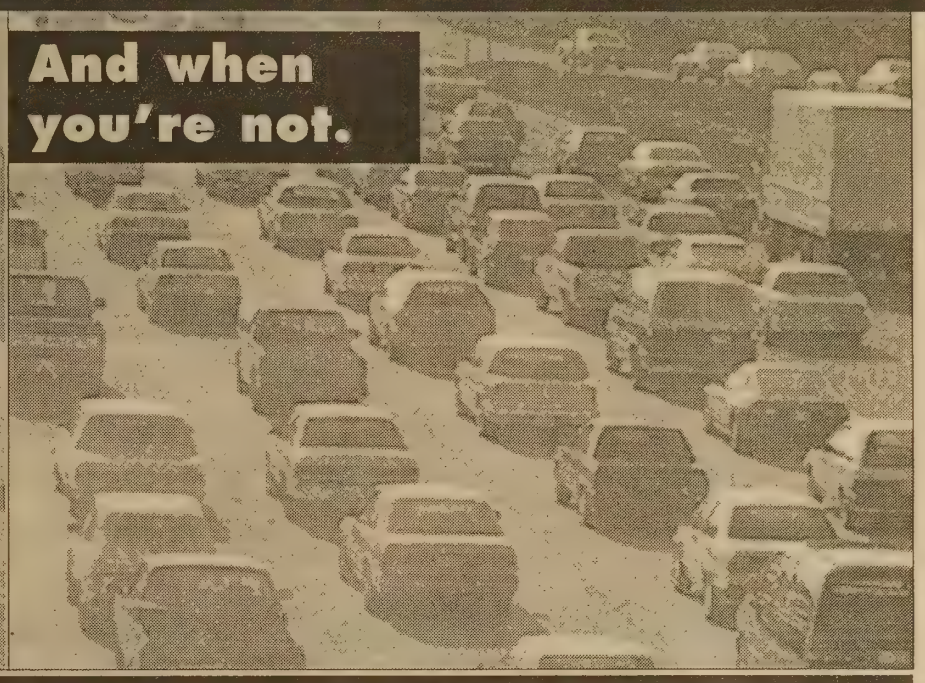


Some modem users don't care if their data gets hung up, transmits inaccurately, or they must redial several times. Most modem users do. For those users, there's ZyXEL, the full-featured modem/fax for serious users.

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Computer Shopper — July 1993 — ZyXEL U-1496E Plus, ZyXEL U-1496 Plus Enhanced Top 10 List

Boardwatch Magazine — November 1992 — ZyXEL U-1496, ZyXEL U-1496E

Winter 1992 — ZyXEL U-1496 — Awarded 5 NeXTWORLD Cubes

PC Magazine 200 Fast Pack — June 1993 — ZyXEL U-1496E

Network World — May 10, 1993 — ZyXEL U-1496E

Byte — Best Value High Speed Modem — ZyXEL U-1496E Plus

Byte — Best Two-Way All-Around Modem — ZyXEL U-1496E

PC Digest Ratings Report — May 1993 — ZyXEL U-1496, ZyXEL U-1496E

PC Magazine Editors' Choice — June 29, 1993 — ZyXEL U-1496 Plus

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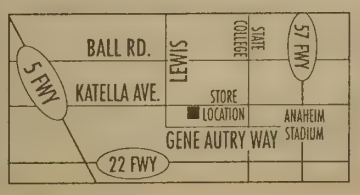


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- Microsoft Serial Mouse

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- Full Size Tower Case
- 14" SVGA N.I. 0.28mm Monitor
- Enhanced 101 Keyboard
- Serial Mouse

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- VLB 32 Bit IDE I/O Controller
- Mini Size Tower Case
- 14" SVGA 0.28mm Monitor
- Enhanced 101 Keyboard
- Serial Mouse

**40MHz $989**

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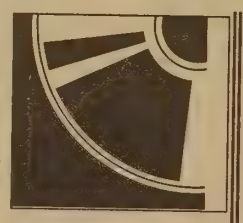

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- 1.44MB Floppy Drive
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- VLB 32 Bit SVGA Card (1MB)
- VLB 32 Bit IDE I/O Controller
- 2 Serial, 1 Parallel, 1 Game Port
- Full Size Tower Case
- 14" SVGA N.I. 0.28mm Monitor
- Enhanced 101 Keyboard
- Serial Mouse
- Sound Blaster 16 Sound Board
- Panasonic Double Speed CD-ROM
- 6 Multi-Media CD Titles

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- 1.44MB Floppy Drive
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- ATi Mach 64 SVGA Card (2MB)
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- 2 Serial, 1 Parallel, 1 Game Port
- Full Size Tower Case
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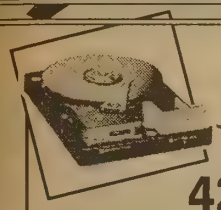

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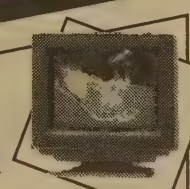

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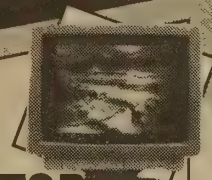

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$235

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| VGA 16 Bit 256K Card (800x600 Res.) | $26 |
| VGA 16 Bit 512K Card (1024x768 Res.) | $34 |
| VGA 16 Bit 1MB Card (1024x768x256 Color) | $55 |
| Windows Accelerator w/1MB VGA Card | $69 |
| Speedstar Pro Windows Accelerator | $119 |
| ATi Graphic Ultra Pro w/2MB VRAM | $265 |
| ATi Graphic Ultra Plus w/2MB DRAM | $195 |
| VLB Cirrus Logic w/1MB Upgrade To 2MB | $89 |
| VLB S3-805 Chip Windows Acc. w/1MB | $105 |
| VLB ET4000/W32 w/1MB | $139 |
| VLB ET4000/W32i w/2MB | $175 |
| VLB ATi Graphic Ultra Pro w/2MB VRAM | $265 |
| VLB ATi Graphic Ultra PLUS w/2MB DRAM | $195 |
| VLB Diamond VIPER w/2MB VRAM | $320 |
| VLB ATi Mach 64 w/2MB VRAM | $325 |
| VLB ATi Mach 64 w/4MB VRAM | $549 |
| PCI ATi Mach 64 w/2MB VRAM | $325 |
| PCI ATi Mach 64 w/4MB VRAM | $549 |
| PCI ET 4000/W32i w/2MB | $175 |

## MONITOR

| | |
|---|---|
| VGA Monitor | $175 |
| 14" SVGA 1024x768, .39mm | $205 |
| 14" SVGA 1024x768, .28mm | $225 |
| 14" SunShine 1024x768, N-I .28mm | $235 |
| 15" Arche 1280x1024, N-I .28mm | $335 |
| 17" SunShine 1280x1024, N-I .28mm | $595 |
| 17" MAG DX17F 1280x1024, N-I .26mm | $645 |

## CASE

| | |
|---|---|
| Mini Tower Case w/Power Supply | $45 |
| Mid Size Tower Case w/Power Supply | $65 |
| Full Size Tower Case w/Power Supply | $85 |

## HARD DRIVE

| | |
|---|---|
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| IDE 420MB Hard Drive | $225 |
| SCSI 210MB Hard Drive | $260 |
| SCSI 340MB Hard Drive | $370 |
| SCSI 535MB Hard Drive | $450 |
| SCSI 1.0GB IBM Hard Drive (8.5ms) | $720 |

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| IDE Hard & 4 Floppy Controller | $36 |
| IDE Cache Controller (DC600) | $95 |
| SCSI Cache Controller (DC800) | $225 |
| VLB IDE HD/FD & I/O Controller | $29 |
| VLB IDE Cache Controller (DC680) | $105 |
| VLB IDE Hard & Floppy Controller & Hi-Speed I/O (16550 UART) | $49 |
| VLB SCSI-2 Controller (Adaptec 6360 Chipset) | $99 |
| VLB SCSI-2 IDE Hard & Floppy Controller & I/O (Adaptec 6360 Chipset, 16550 UART), | $145 |
| EISA SCSI Cache Controller (DC820) | $399 |

## KEYBOARD

| | |
|---|---|
| 101 Enhanced Non-click Keyboard | $19 |
| 101 Enhanced Click Keyboard | $23 |
| FOCUS 2001 Keyboard | $38 |
| FOCUS 8000 Keyboard | $45 |
| FOCUS 9000 Keyboard | $68 |

## FLOPPY DRIVE

| | |
|---|---|
| NEC 5.25" 1.2 Floppy Drive | $50 |
| NEC 3.5" 1.44 Floppy Drive | $47 |
| TEAC 5.25" 1.2 Floppy Drive | $52 |
| TEAC 3.5" 1.44 Floppy Drive | $50 |
| TEAC Dual Floppy Drive | $125 |

## MEMORY

| | |
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| 1MB SIMM 30pin | $38 |
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| 4X9 (3 CHIP) | 145 | 144 | 142 | 8 MB | 345 | 339 | 330 | 486 DX 100 |
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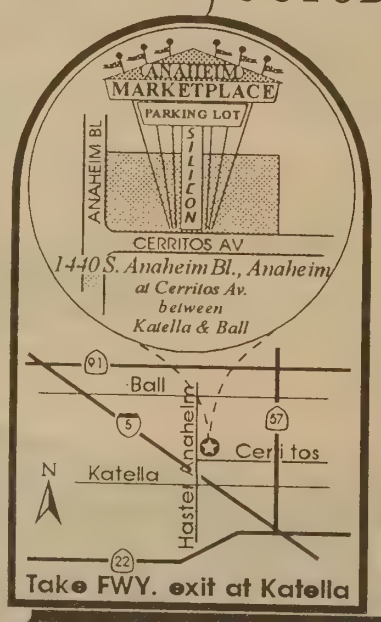

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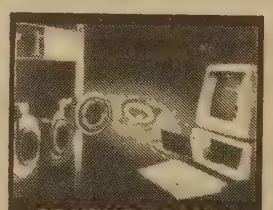
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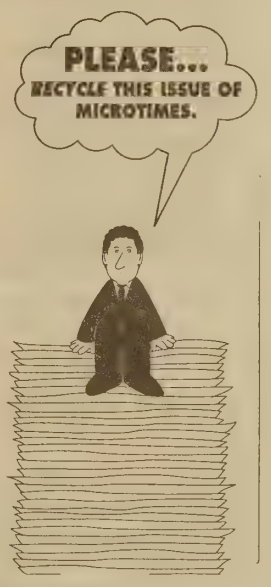



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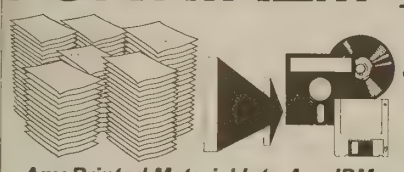

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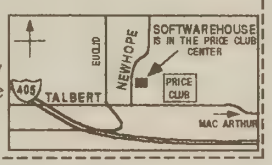



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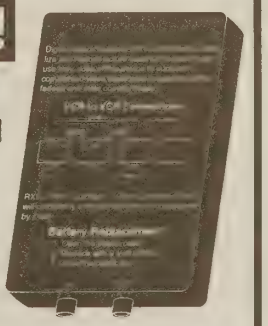

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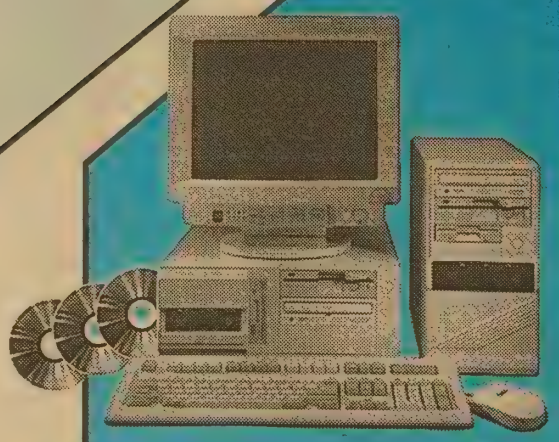

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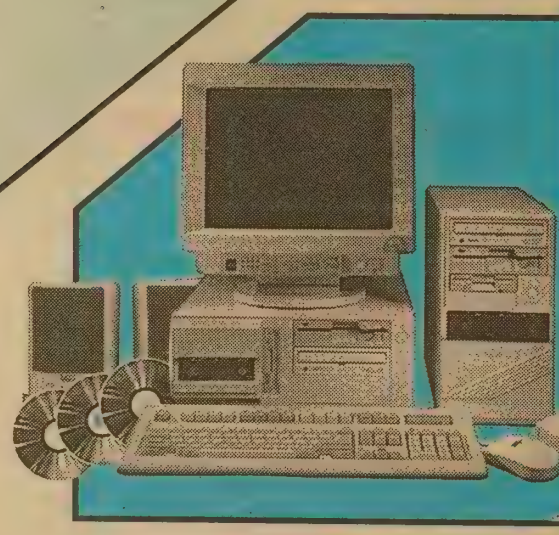

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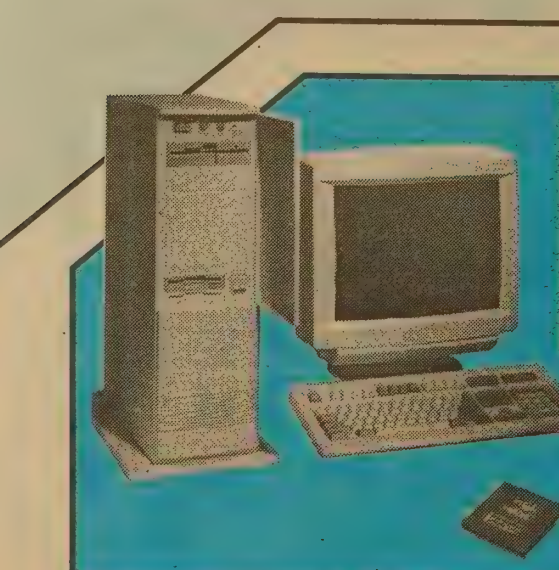

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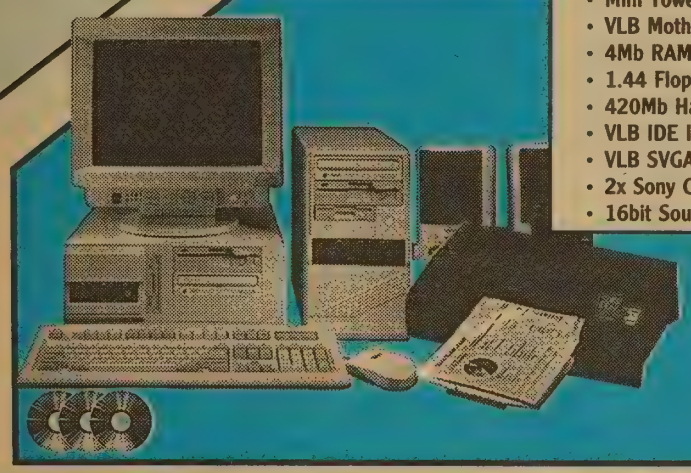

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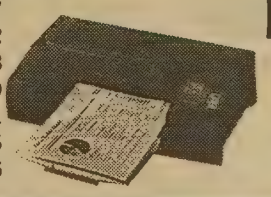

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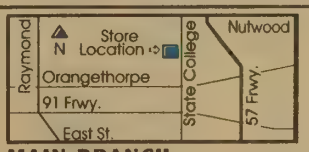


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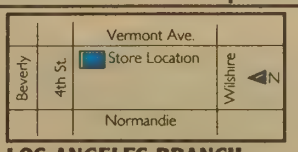


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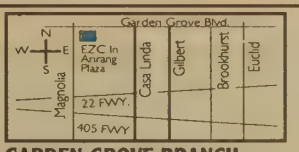


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| Maxtor | 540S | 8.5ms | 3.5"HH | $330/480 |
| Quantum | 540A, IDE | 10ms | 3.5"LP | $295/445 |
| Quantum | 540S, SCSI | 10ms | 3.5"LP | $335/485 |
| Seagate | 3655A, IDE | 10ms | 3.5"LP | $290/430 |
| Seagate | 3600N, SCSI | 12ms | 3.5"LP | $325/475 |

**750MB**

| MAKE | MODEL | SPEED | SIZE | INT/EXT |
|---|---|---|---|---|
| Quantum | 730S, SCSI | 12ms | 3.5"LP | $390/490 |
| Conner | 810, IDE | 12ms | 3.5"LP | $420/575 |

**1.0GB**

| MAKE | MODEL | SPEED | SIZE | INT/EXT |
|---|---|---|---|---|
| Conner | 1060S, SCSI | 10ms | 3.5"LP | $599/699 |
| Conner | 1080, IDE | 10ms | 3.5"LP | $599/750 |
| Fujitsu | 2694, SCSI | 10ms | 3.5"HH | $599/699 |
| Micropolis | 4410, SCSI | 10ms | 3.5"LP | $599/699 |
| Micropolis | 4410A, IDE | 10ms | 3.5"LP | $599/750 |
| Micropolis | 4410AV, SCSI | 10ms | 3.5"LP | $735/835 |
| Quantum | 1080S, SCSI | 10ms | 3.5"LP | $599/699 |

**1.0GB cont.**

| | | | | |
|---|---|---|---|---|
| Seagate | 31200N, SCSI | 10ms | 3.5"LP | $599/699 |
| WD | 31000, IDE | 10ms | 3.5"LP | $599/750 |

**1.7GB**

| MAKE | MODEL | SPEED | SIZE | INT/EXT |
|---|---|---|---|---|
| Micropolis | 2217, SCSI | 10ms | 3.5"HH | $875/975 |
| Micropolis | 2217AV, SCSI | 10ms | 3.5"HH | $945/1045 |
| Micropolis | 2217A, IDE | 10ms | 3.5"HH | $875/1025 |

**2.0GB**

| MAKE | MODEL | SPEED | SIZE | INT/EXT |
|---|---|---|---|---|
| Seagate | 12400N, SCSI | 10ms | 3.5"HH | $1185/1285 |
| DEC | 5200S, SCSI | 12ms | 5.25"FH | $995/1095 |
| DEC | 3210S, SCSI | 10ms | 3.5"HH | $1200/1300 |
| Micropolis | 1924, SCSI | 10ms | 5.25"FH | $1200/1300 |
| Micropolis | 1926, SCSI | 10ms | 5.25"FH | $1300/1400 |
| Seagate | 12550N, SCSI | 8ms | 3.5"HH | $1295/1395 |

**3.0GB**

| MAKE | MODEL | SPEED | SIZE | INT/EXT |
|---|---|---|---|---|
| Micropolis | 1936, SCSI | 10ms | 5.25"FH | $1850/1950 |
| Seagate | 434N, SCSI | 8ms | 5.25"FH | $2100/2200 |
| DEC | 5300 | 11ms | 5.25"FH | $1550/1650 |

**4.0GB**

| | | | | |
|---|---|---|---|---|
| DEC | 5400S, SCSI | 12ms | 5.25"FH | $2100/2200 |
| Seagate | 15230, SCSI | 9ms | 3.5"HH | $2280/2380 |
| Seagate | 15150, SCSI | 8ms | 3.5"HH | $2450/2550 |

**9.0GB**

| | | | | |
|---|---|---|---|---|
| Seagate | 410800N, SCSI | 12ms | 5.25"FH | $4400/4500 |

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| 250MB | Wang Dat, SCSI | $400/600 |
| 525MB | Archive, SCSI | $540/740 |
| 525MB | Wang Dat, SCSI | $540/740 |
| 2GB | Wang Dat, SCSI | $750/950 |
| 4GB | Wang Dat, SCSI | $950/1150 |
| 16GB | Wang Dat, SCSI | $1150/1350 |

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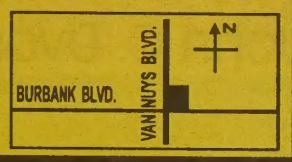


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* 32 bit VL-BUS accelerator card w/ 1 MB
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**DVORAK'S LAST COLUMN** • BY JOHN C. DVORAK

# From The Cutting Room Floor:

## The Lost Columns Of John C. Dvorak

**There are a lot** of columns that never get written. There are five possible reasons for this. 1) The column was stupid; 2) The column was too short; 3) The column was boring; 4) It would have made a better book than a column (rare); 5) There was a deep-seated suspicion that the editors wouldn't like it, so it was abandoned. Here are a number of columns that I began to write for *MicroTimes*, but abandoned because the editor wouldn't like them.

### Dweeb (The Musical Comedy)—scenes NOT found in the final production

**Three Stooges Parody:** *the scene opens in Bill Gates' office. Inside stands Mike Maples (head shaved bald to look like Curly), Steve Ballmer (bald on top with long side hair to look like Larry), and Bill Gates, with his hair the way he normally wears it, to look like Moe.*

**Gates:** You knuckleheads. [*Slaps the two presidents*] Sales are flat. [*Takes out hammer and bonks Ballmer on the head*]

**Ballmer:** [*pointing to Maples*] It's his fault. He's the one with the calculator.

**Maples:** Nyah! I didn't do nuttin'.

**Gates:** [*Bops Maples on head with hammer*] That's the problem!

**Maples:** Why I oughta...!!

**Gates:** Oughta what? [*Bops him on head again*]

**Maples:** Whoop, whoop, whoop.

Needless to say, this is either going nowhere or is destined to be one of the greatest stories ever told. (I'm fooling myself, of course, with this belief.)

### The Computer Bowl As I'd Like To See It

This is my idealized version of the Computer Bowl. If you are unfamiliar with the Computer Bowl, it's a quasi-game show run by the Boston Computer Museum. It's shown on the *Computer Chronicles* when the show runs out of real material. Each year the same clique gets together to answer dorky questions about the computer industry. While it used to have cute pioneer-type questions that the audience could answer, it has degenerated into weird trivia questions including horrid questions about sales figures.

On any given Computer Bowl you'll find Mitch Kapor (Electronic Frontier Foundation), Bill Gates (billionaire-at-large), John Doerr (venture capitalist), and a number of other characters year after year. There are two teams pitted against each other and, depending on the slant of the questions, the East team is fixed to win two out of three years since the proceeds benefit the Computer Museum of Boston.

My column that was never written proposes that each of the contestants on each team be seated on a metal plate into which can be pumped a high-voltage, low-current jolt of electricity. Each time their team misses an answer the whole side gets a jolt. Each time an individual gives a wrong answer that person gets an extra long jolt.

The beginning of the show would be much more entertaining, too, as everyone would be jolted as the host (me) would explain how the show worked.

**Host:** For each wrong answer you each get a jolt—ZZZZZAAAAAAPPPPP!!!! Like that [*contestants all pop into the air with a grimace on their faces*]. If, for any reason I have some particular dislike of you...you get a jolt...like this—ZZZZAAAPPP!! Anyone doing those idiotic "high fives" that you seem to enjoy ever so much, you get a jolt. Like this—ZZZAAPPP!! Let's begin by testing your buzzers. Each contestant, in order, please push the buzzer. As you do I'll test the zapper. Ready? ...

Now this show would be a lot more entertaining than anything on the air. I think a lot more money would be donated if we could see these jokers get a jolt of electricity every so often. In fact I'm sure it could go network.

### Conversations Overheard On The Cellular Scanner

Here's a column that would be an investigative article. A year ago I commissioned two notorious phone phreaks to scan and record excellent cellular phone conversations using the best equipment available. They came back with numerous calls from Valley executives. Since most were calls about their mistresses and about hot stock tips I figured nobody would be interested.

### Computing In The 22nd Century

When you really need a serious column, you go out and quiz various professors (who really have no clue about much of anything) about the future of computing. Since they always sound so knowledgeable the column is usually a good read.

It's ironic, though, when you leave the professor's office you turn back to see him go back to work on a PET computer. As you leave he mumbles something about the miserable cassette tape drive.

On any given Computer Bowl you'll find Mitch Kapor (Electronic Frontier Foundation), Bill Gates (billionaire-at-large), John Doerr (venture capitalist), and a number of other characters year after year.

### The Column That The PR Professionals Want You To Write

There's a whole column in this topic. Luckily I have better things to do than bore my readers stiff. Here's what I mean.

**PR Professional:** [*on phone*]: Hello, Mr. John Devorack?

**Moi:** Speaking.

**PR Professional:** I'm Harriet Burnside with Burnside, Rabinowitz, Ratbutz and Dickinson. We're a PR firm representing Oceanville Software. Mr. Ferlin Harrison, the president of Oceanville Software, will be in your area next week and still has a couple of times open for an interview. Let's see. There's Tuesday at 9:30 and Thursday at 11:15.

**Moi:** I'm not available at those times. Who is this guy?

**PR Professional:** He has other times open. He wants very much to speak to you. Tell me what you have available and maybe we can make some changes in Mr. Harrison's schedule.

**Moi:** What is this about? What does Oceanville Software do?

**PR Professional:** We're a new start-up in the vertically integrated motel management arena. But there is a new product that we'd like to show you that takes the company into a new direction.

**Moi:** What is it?

**PR Professional:** I can't tell you.

**Moi:** What does Harrison want to talk about.

**PR Professional:** His vision about the future of desktop computing.

**Moi:** Not interested.

**PR Professional** But he's a very interesting person with a great vision. He used to work at Xerox, you know. Maybe you'd want to write a feature about him.

I change my mind and my next column is entitled: Ferlin Harrison and How Motel Software Will Change History.

I realize what a bonanza of free material I have at my fingertips. All the CEOs of every small wannabee company in the country has a story to tell. How CAD/CAM Changed My Life. Accounting in the Dry Cleaning Business Couldn't Be Easier. How One Software Package Can Change the Way *You* Think About Computers. Cool. I'm sure people are anxious to read all about this stuff. Gee, and maybe *People* magazine will be interested in my article detailing the foot fungi of the rich and famous.

Have a nice day. ■

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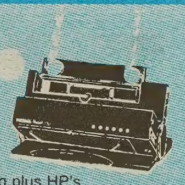

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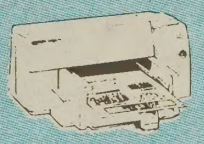

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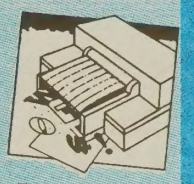

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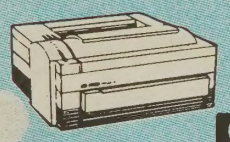

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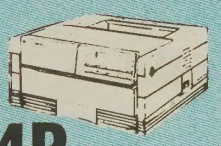

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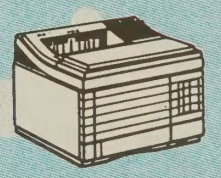

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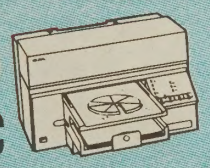

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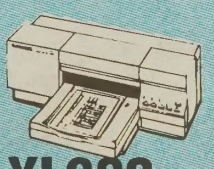

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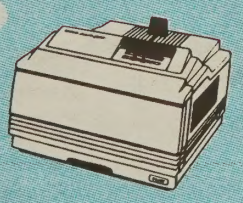

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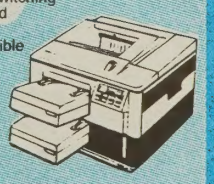
## LaserJet 4Si



- Expandable and flexible, excellent for networks
- Fastest HP LaserJet printer at 17 ppm
- Multiple language capability with auto switching
- True 600 x 600 dpi printing with REt and microfine toner
- 75,000 page/ month duty cycle and flexible paper-handling
- HP quality and reliability

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**$2955**

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*Prices Good Through November 8, 1994*

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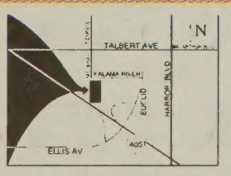


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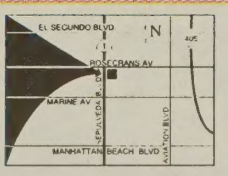


**Manhattan Beach**
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*with purchase*

Scan newspapers, magazines, notes, even recipes directly into Windows.

- Capture and edit
- Database manager
- Key word search
- Full text retrieval
- Multiple file cabinets
- Twain compliant

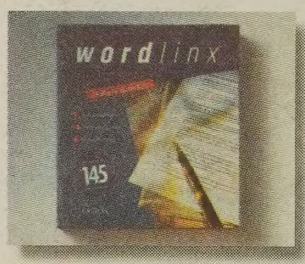
### ALOS DocuWare Pressman Software

*Electronic filer and clipping manager*

The easiest way to organize all those "keeper" pieces of paper that cross your desk everyday.

**$199**

*with portable scanner* ..... *$349*




- New version supports Twain scanners.
- Works with scanners from: Hewlett Packard, Umax, Microtek, Mustek, Canon, Logitech and many others

### Wordlinx by OCRON

A complete OCR program, featuring an embedding technology that allows invoking from your favorite Windows word processors!

**$69**

- JPEG compression
- Gamma adjustment
- Supports Twain scanners, Tiff, Gif, JPG, PCD, EPS and PCX

### ImageFolio by PROLAB

ImageFolio can flip and rotate, do chroma key backgrounds, lift images, display color variations, offers palette editing and image master database. 99% of Photoshop features at 1/5 the price!

**$79**

- Flicker free TV display
- 6 line buffer is double the size of the rest!
- Use with Mac, PC or notebook.

### Maxmedia TV by UMAX

Features plug and play technology making it simple to use a color television display from your Mac, PC or notebook. Converter box and cables included.

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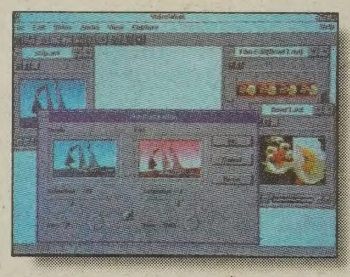
- 800DPI
- 4" scan width
- Intelligent Image Stitching

256 Grayscale **$89**

24bit color **$169**

### MiniLook hand scanners by UMAX

Breakthrough pricing on these high quality scanners! They come complete with Perceive Personal OCR software and ProImage Plus image editing software.



- Filmstrip style display
- Frame by Frame Editing
- AVI file format
- Supports multiple video sources
- Runs in 4MB RAM

### VideoWork by PROLAB

Try video image editing! VideoWork has over 100 transitions, audio and video special effects — including chroma key, image lifting and retouching tools.

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**Advantage by POLARIS**

The easy way to organize your day, your work and your life. • Scheduling. • To-do notes. • Month-day-week views, more

*Quantity limited at this price*

**$69**

**BizCard Reader by UMAX**

Simply the best way to input business cards into your contact manager.

• Parallel port scanner and software

**$195**

**Business Card Reader Software Specials!**

*• Type free data entry • Direct link to ACT, PackRat, Advantage & other contact managers*

**BCR for handscanner** ..... **$59**

**BCR for Flatbed scanner** ..... **$69**

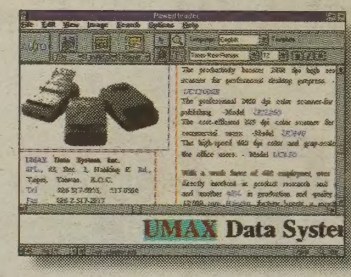
**OCRON BCR with card scanner** limited quantity ..... **$149**

- *ALL NEW* version
- Twain compliant
- Auto page stitching
- Poor quality enhancement

### Perceive Personal by OCRON

The World's best selling OCR software for hand scanners... with over 1 million copies worldwide!

**$59**




- Page Segmentation
- QuickProof deferred processing
- Poor Quality enhancement

### PowerReader by UMAX

A stand alone Optical Character Recognition software featuring a powerful WSYWYG editor, retains formats,recognizes 11 languages, automatic Omnifont recognition. Easy to use, fast and accurate, great value.

**$79**

**Robo Fax FAX ON DEMAND by FAXQUEST**

Complete system answers incoming calls - faxing requested documents automatically! Robo Fax contains card with voice and fax, software, speakers and microphone.

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